Gibus®
THE SUN FACTORY

USE AND MAINTENANCE MANUAL
DECLARATION OF QUALITY
DECLARATION OF WARRANTY
DECLARATION OF PERFORMANCE DoP

MODEL

SWAY

ISLAND VERSION, LEANING VERSION, WALL, SINGLE MODULE, COUPLED, CROSS-SHAPED COUPLING

CE | UKCA

ENG

MUT 115
Code 340426
Rev. 1
30/10/2022

Gibus S.p.A. Via Luigi Einaudi, 35 35030 Saccolongo (PD) - ITALY www.gibus.it - gibus@gibus.it

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).

Gibus
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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, isolated or leaning against the wall, for outdoor use.
Models:	SWAY (ISLAND - LEANING VERSION- WALL)
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:

- **SWAY ISLAND**: Bioclimatic self-supporting stand-alone pergola with cover made up of a brise-soleil with swinging and retractable metal blades, available in single or multi-module versions, with coupling modules.
- **SWAY LEANING VERSION**: Bioclimatic wall-leaning pergola with cover made up of a brise-soleil with swinging and retractable metal blades, available in single or multi-module versions, with coupling modules.
- **SWAY WALL**: bioclimatic pergola applied to walls with cover made up of a brise-soleil with swinging and retractable metal blades, 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 long be read, it is advisable to request a new manual to the manufacturer.

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

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

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

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

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

1.3 REGULATIONS AND SELF-CERTIFICATION DOCUMENTATION

1.3.1 With reference to CE marking
This User's Manual was prepared in accordance as indicated in EN 13561 and and with section 1.7.4 of Annex 1 to Directive 2006/42/EC taking into account the normal use of the Pergola in order to inform, together with other instructions for use affixed to the pergola itself or in the installation instructions, the operators / users on residual risks that the products presents.
The Bioclimatic Pergola complies with the "Construction products regulations - CPR 305/2011" and the requirements given in the Annex ZA of the EN 13561, "assessment and inspection system for performance continuity type 4" (System 4).
If it is installed properly, it has a resistance to wind as shown in the technical data table in section 4, according to the size, in each case greater or equal than those required by the Class 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/m^2] (Newton/m^2) similar to an 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/m^2] (Newton/m^2) 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”.

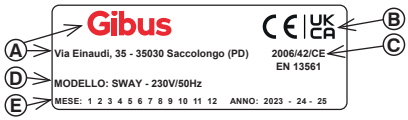
WARNING: For maintenance or repair to always use only original spare parts. Gibus SpA declines all responsibility for damages that may occur for non-compliance with the above instructions. The Pergola is guaranteed according to the contractual arrangement prepared at the time of sale. The warranty is 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 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 SWAY model is characterized by the possibility of retracting the brise-soleil blades to open the cover. Folding (i.e. blade retracted) depends on the position of the blades, which can be retracted only if they are in the vertical position.
For the SWAY pergola version, the safest configuration, in case of snowfall, is with the blades retracted/folded to about 2/3 - 66% (not completely), leaving about 5 cm of a gap between one blade and the next one to prevent the accumulation of snow.
In the Line 24V version, we recommend that you use the snow sensor, which is the temperature sensor combined with the rain sensor, to detect the prescence of snow and prevent it from accumulating.
The 230V version can not be equipped with the snow sensor and, therefore, the user must rectract the blades as explained above.
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.
For safety reasons, it is recommended to retract and open the swinging metal blades by about 2/3 - 66% (not completely) before the given limit is reached (even though the pergola offers a higher wind resistance depending on its size).

IMPORTANT!: If perimeter closures, such as side drop awnings or glass doors, are installed in the SWAY 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 SWAY pergola is designed to withstand, with the blades in the closed position, a static load from deposited snow 50 kg/m^2 (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 rectracted/ 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).

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**.
Both versions, the **Gibus Line 24V** and **230V**, need 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 STANDARD SAFETY DEVICES

Temperature sensor (available for the Gibus Line 24V version only):
The sensor detects the temperature that could cause the freezing of the pergola slats. If it is under 2°C the alarm is activated, then the control unit moves the slats at the 66% of the opening. The alarm is off when the temperature is over 3°C.
The control unit performs just hold-to-run commands during the status of alarm, and resumes its normal operation when the alarm is not active anymore. By default the sensor is deactivated. Alarm priority: MEDIUM.

IMPORTANT: The temperature sensor can be activated by the remote control/set up transmitter. See the specific instructions of the control unit supplied with the accessory box.

2.4 OPTIONAL SAFETY DEVICES

Wind sensor:
High priority sensor. Enabled by default. The anemometer detects the wind speed.
The alarm is present when the detected speed is over the set threshold. When the alarm is present, the brise-soleil blades are retracted/folded to about 2/3 - 66% or completely, depending on 24V motorization or 230V motorization. The alarm does not activate when the sensor detects that the speed is lower than the set threshold. Alarm priority: HIGH.

IMPORTANT: to activate or deactivate the wind sensor or set its activation threshold, see the specific instructions for the sensor supplied with the accessory box.

Rain sensor:
When the sensor detects rain and the alarm is activated, the device will control the brise-soleil opening, placing it in the closed position. The device doesn't perform any command during the status of alarm. The alarm is off when the sensor does not detect rain for some time.
The sensor is not activated by default at the factory in all models. Alarm priority: LOW.

IMPORTANT: the rain sensor can be enabled/disabled from the remote control/ set up transmitter. See the specific instructions of the control unit supplied with the accessory box.

Snow condition - temperature sensor combined with rain sensor - (available for the Gibus Line 24V version only):
To manage the alarm related to the condition of snow, it's necessary to combine the temperature sensor with the rain sensor. The snow alarm is on when the temperature is under 2°C and rain has been detected; then the control unit moves the blades to about 66% of the opening, and retracts the brise-soleil blades to about 2/3.
The alarm is off when the temperature is over 3°C or no rain is detected. The control unit performs just hold-to-run commands during the status of alarm and resumes its normal operation when the alarm is no longer active. By default, the combination is deactivated. Alarm priority: MEDIUM.

IMPORTANT!: for further information about the control unit of motors and sensors as well as for specific information, see the instructions supplied with the control unit and sensors.

2.5 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).

2.6 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 Pergolas of the ***SWAY*** line were designed and built according to the principles of constant innovation, impeccable workmanship and attention to detail by ***Gibus Total Quality***. A system of values designed to ensure complete customer satisfaction.
The bioclimatic Pergolas allows you to regulate the microclimate of the underlying environment by creating natural ventilation.
The aluminum blades that make up the moveable cover are moved by a motorized system and can rotate from the horizontal closed position, which guarantees an excellent seal, in case of rain, to the open position, according to an angle that varies from 0 to 85 degrees. For the SWAY system, opening and retracting are simulteneous.
SWAY ISLAND is a bioclimatic pergola made of moveable and retractable brise-soleil aluminium blades integrated in a special and dedicated self-supporting structure. It is installed in a stand-alone way and isolated from any building.
For the ***SWAY LEANING VERSION***, the integrated structure must be leaned against the wall of a building.
SWAY WALL is installed by applying it to the wall of a building.
The blades are moved by a tubular motor controlled by a remote control or a keyboard.
The Pergola is equipped with several patented systems to facilitate and speed up the installation work and improve the performance of the product:

Gibus Patent® ***Fast Coupling***: Quick coupling system of the engine built into the gears.

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

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

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.

3.1 STRUCTURAL AND MECHANICAL COMPONENTS

The Bioclimatic Pergola is formed of a self-supporting structure or attached to a wall, made from painted aluminium and with side self-supporting gutters, supporting legs measuring 130x130 mm and a cover formed of swinging brise soleil blades. The profiles, adjustable blades and the bearing structure are made of aluminium alloy EN AW 6060 UNI EN 573-03 UNI EN 755-2, treated with an anticorrosion treatment and thermosetting polyester powder paint. The plastic components are melted in fiberglass and nylon plastic.
The couplings include stainless steel brackets, painted aluminium parts, stainless steel nuts and bolts. The blades are moved by a tubular motor and a timing belt controlled by a radio control system.

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 SWAY bioclimatic pergola can be equipped with a 230V motor or with a 24V motor (Gibus Line 24 V).

In the case of a 230 V motor
The tubular motors are single-phase asynchronous irreversible **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] ouputs. **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 Pergola (tubular motors) is Class I. The pergola must be grounded according to the diagram shown in the Installation Instructions.

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.

In the case of a 24V motor
The tubular motors are 24 Vdc in direct current with mechanical limit switches, powered by a special control unit with 230V/24V feeder with 240W power.

SWAY Electric Features

Type	Bioclimatic pergola.		
Power supply	230 V (+10% +15%) 50Hz for SWAY version 230V (*) 230 V (+10% +15%) 50Hz for SWAY version 24V (*)		
Max. absorbed power	250 W (max. 1,5 A) for standard configuration modules (blade movement and Spot White lights). +max. 320 W with RYB leds +max. 600 W with antifreeze system Tot. max. 1200 W (5.2 A) Refer to the labels on the outputs on each single line. For the other accessories, refer to the power levels defined in the catalogue.		
Insulation class	Class II (it is not recommended to ground the structure) for standard configuration modules with Gibus 24V motorization (blade movement and Spot White lights and with RYB). Class I (the structure must be earthed) with side awnings or heaters) and always with 230V motorization.		
Connection mode	by IP68 Male/female connector.		
Power cable (supplied by the customer)	YOU NEED a double insulated cable. Provide a cable: H07RN-F type with minimum formation dependent on power		
For max power:	up to 2 kW	up to 3 kW	up to 5 kW
up to 30 m	3G 1,5 mm^2	3G 2,5 mm^2	3G 4,0 mm^2
up to 50 m	3G 2,5 mm^2	3G 4,0 mm^2	3G 10,0 mm^2
Upstream protection (supplied by the customer)	Magnetothermal switch and differential switch with intervention current 0,03 A. Type of differential protection: A (**).		
For max power:	up to 2 kW	up to 3 kW	up to 5 kW
Magnetothermal switch features:	2 10A poles Curve C	2 16A poles Curve C	2 25A poles Curve C
Protection against overvoltage	None (provide the electric board with a suitable SPD protection system).		
Operating temperature	-20°C / +55°C		
Degree of protection	IP 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 have the following additional electronic devices:
- **Gibus Line 24V** version: wind, rain, temperature and snow sensors for the 24 VDC motorized version (see paragraph 2.3 and 2.4).
- **230V** version: wind, sun and rain sensors for the 230V motorized version (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 SWAY: 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 measured noise (sound pressure level) was less than 55 dB (A).

CHAPTER 4: TECHNICAL DATA

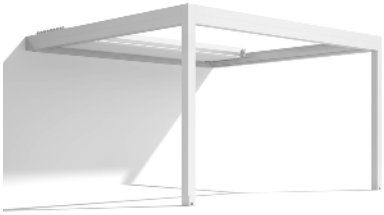
4.1 TYPE

SWAY ISLAND (Basic Module)

With 4 legs:
Width up to 425 cm
Projection up to 610 cm

SWAY FRONTAL LEANING VERSION (Basic Module)

Tubular motor parallel to the wall



With 2 legs:
Width up to 425 cm
Projection up to 610 cm

SWAY LATERAL LEANING VERSION (Basic Module)

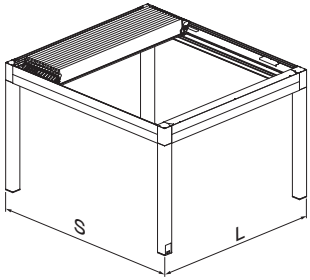
Tubular motor perpendicular to the wall

With 2 legs:
Width up to 425 cm
Projection up to 610 cm

SWAY WALL (Basic Module)

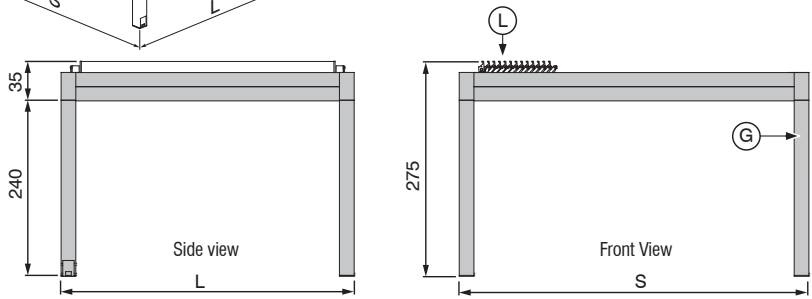
With 4 wall attachments:
Width up to 425 cm
Projection up to 610 cm

4.2 SWAY ISLAND



STANDARD
- Posts 130x130 mm.
- Wall flashing profile.

ISLAND - SINGLE MODULE
4 LEGS max. L x S 6.00 x 7.10



1 Module		WIDTH "L" (cm)												G	L
		150	175	200	225	250	275	300	325	350	375	400	425	n°	n°
		kg													
PROJECTION "S" (cm)	150	222	238	255	272	289	305	322	339	356	373	389	406	2	6
	170	239	257	275	293	311	329	347	365	384	402	420	438		7
	190	256	275	295	314	334	353	372	392	411	431	450	470		8
	210	273	294	314	335	356	377	398	418	439	460	481	501		9
	230	290	312	334	356	378	401	423	445	467	489	511	533		10
	250	307	331	354	378	401	424	448	471	495	518	541	565		11
	270	324	349	374	399	423	448	473	498	522	547	572	597		12
	290	342	368	394	420	446	472	498	524	550	576	602	628		13
	310	359	386	414	441	468	496	523	551	578	605	633	660		14
	330	376	405	433	462	491	520	548	577	606	634	663	692		15
	350	393	423	453	483	513	543	573	603	633	664	694	724		16
	370	410	442	473	504	536	567	598	630	661	693	724	755		17
	390	427	460	493	525	558	591	624	656	689	722	754	787		18
	410	444	479	513	547	581	615	649	683	717	751	785	819		19
	430	462	497	532	568	603	638	674	709	745	780	815	851		20
	450	479	515	552	589	626	662	699	736	772	809	846	882		21
	470	496	534	572	610	648	686	724	762	800	838	876	914		22
	470	513	552	592	631	670	710	749	789	828	867	907	946		23
	510	530	571	612	652	693	734	774	815	856	896	937	978		24
	530	547	589	631	673	715	757	799	841	883	925	967	1009		25
	550	565	608	651	695	738	781	825	868	911	954	998	1041		26
	570	582	626	671	716	760	805	850	894	939	984	1028	1073		27
	590	599	645	691	737	783	829	875	921	967	1013	1059	1105		28
	610	616	663	711	758	805	853	900	947	994	1042	1089	1136		29

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/m²]

"S" \ "L"	G	L	200	250	300	350	400	425
210		9	795	629	462	296	240	212
250		11	696	562	429	296	239	211
290		13	597	496	396	295	238	210
330		15	497	430	362	295	238	209
370		17	398	364	329	294	237	208
410	4	19	299	297	296	294	236	208
450		21	270	268	265	263	211	185
490		23	242	238	235	232	185	162
530		25	213	209	205	200	159	139
570		27	185	179	174	169	134	116
610		29	156	150	144	138	108	93

Snow load without wind [kg/m²]

"S" \ "L"	G	L	200	250	300	350	400	425
210		9	523	411	299	187	151	134
250		11	457	367	277	187	151	134
290		13	391	323	255	187	151	134
330		15	326	279	233	187	151	134
370		17	260	236	211	187	151	134
410	4	19	194	192	189	187	151	134
450		21	173	171	168	166	134	118
490		23	153	150	147	144	116	102
530		25	132	129	126	123	98	86
570		27	112	108	105	101	81	70
610		29	91	87	84	80	63	55

The values reported in the table on the right, show the snow load resistance when there is no wind. The pergola structure and cover are designed and certified to resist a deposited snow load (with no wind) that varies by size.
In case of snow, it is advised to the blades must be placed vertically (open) before the snow settles on them. Do not stand under or near the pergola if any snow has deposited on it.

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

Wind Resistance [kg/m²] Without Integrated ZIP Screens

"S" \ "L"	G	L	200	250	300	350	400	425
210		9	245	198	150	103	83	73
250		11	226	185	144	103	83	73
290		13	208	173	138	103	83	73
330		15	189	160	132	103	83	73
370		17	171	148	126	103	83	73
410	4	19	152	136	119	103	83	74
450		21	135	122	109	97	78	69
490		23	118	109	100	91	73	65
530		25	100	95	90	84	68	60
570		27	83	82	80	78	63	56
610		29	69	69	69	67	58	52

Wind Resistance [kg/m²] Integrated ZIP Screens closed or semi-closed on 2 or 4 sides

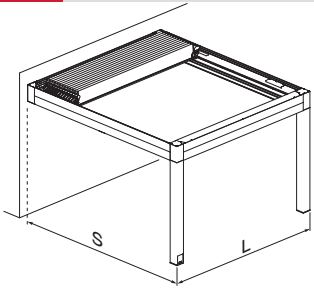
"S" \ "L"	G	L	200	250	300	350	400	425
210		9	127	113	99	85	76	71
250		11	123	110	97	83	75	70
290		13	119	107	94	82	73	69
330		15	116	104	92	80	72	68
370		17	112	101	90	79	71	67
410	4	19	108	98	87	77	70	67
450		21	96	90	83	76	69	66
490		23	85	82	79	75	68	65
530		25	74	74	74	75	67	64
570		27	70	70	70	73	66	63
610		29	70	70	68	67	65	62

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

COMPLEMENTS
- Blades Insulation.
- Lighting with BLADE LED SPOT.

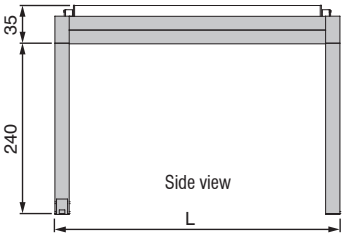
COMPLEMENTS
- Interface for Smart Devices control.
- Radio interface for Domotic System.
- Misting System.
- Electronic De-Icing System in the gutters.
- Heaters.
- Sound system
- Arm awnings installed on the pergola.

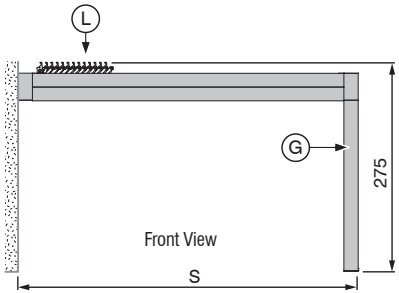
4.3 SWAY FRONTAL LEANING VERSION



STANDARD
- Posts 130x130 mm.
- Wall flashing profile.

FRONTAL LEANING VERSION - SINGLE MODULE
2 LEGS max. L x S 4.25 x 6.10





1 Module		WIDTH "L" (cm)												G	L
		150	175	200	225	250	275	300	325	350	375	400	425	n°	n°
		kg													
PROJECTION "S" (cm)	150	222	238	255	272	289	305	322	339	356	373	389	406	2	6
	170	239	257	275	293	311	329	347	365	384	402	420	438		7
	190	256	275	295	314	334	353	372	392	411	431	450	470		8
	210	273	294	314	335	356	377	398	418	439	460	481	501		9
	230	290	312	334	356	378	401	423	445	467	489	511	533		10
	250	307	331	354	378	401	424	448	471	495	518	541	565		11
	270	324	349	374	399	423	448	473	498	522	547	572	597		12
	290	342	368	394	420	446	472	498	524	550	576	602	628		13
	310	359	386	414	441	468	496	523	551	578	605	633	660		14
	330	376	405	433	462	491	520	548	577	606	634	663	692		15
	350	393	423	453	483	513	543	573	603	633	664	694	724		16
	370	410	442	473	504	536	567	598	630	661	693	724	755		17
	390	427	460	493	525	558	591	624	656	689	722	754	787		18
	410	444	479	513	547	581	615	649	683	717	751	785	819		19
	430	462	497	532	568	603	638	674	709	745	780	815	851		20
	450	479	515	552	589	626	662	699	736	772	809	846	882		21
	470	496	534	572	610	648	686	724	762	800	838	876	914		22
	470	513	552	592	631	670	710	749	789	828	867	907	946		23
	510	530	571	612	652	693	734	774	815	856	896	937	978		24
	530	547	589	631	673	715	757	799	841	883	925	967	1009		25
	550	565	608	651	695	738	781	825	868	911	954	998	1041		26
	570	582	626	671	716	760	805	850	894	939	984	1028	1073		27
	590	599	645	691	737	783	829	875	921	967	1013	1059	1105		28
	610	616	663	711	758	805	853	900	947	994	1042	1089	1136		29

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/m²]

"S" \ "L"	G	L	200	250	300	350	400	425
210		9	999	765	530	296	240	212
250		11	903	700	496	293	238	210
290		13	807	635	462	290	235	208
330		15	712	570	428	286	233	207
370		17	616	505	394	283	231	205
410	2	19	520	440	360	280	229	204
450		21	461	390	319	248	202	179
490		23	402	339	277	215	175	155
530		25	342	289	236	183	148	130
570		27	283	239	195	150	121	106
610		29	224	189	153	118	94	82

Snow load without wind [kg/m²]

"S" \ "L"	G	L	200	250	300	350	400	425
210		9	650	496	341	187	151	134
250		11	579	447	316	185	150	132
290		13	508	399	291	183	148	131
330		15	436	351	266	180	147	130
370		17	365	303	241	178	145	129
410	2	19	294	255	215	176	144	128
450		21	258	224	189	154	126	112
490		23	223	193	163	132	107	95
530		25	187	162	136	111	89	79
570		27	152	131	110	89	71	62
610		29	116	100	83	67	53	46

The values reported in the table on the right, show the snow load resistance when there is no wind. The pergola structure and cover are designed and certified to resist a deposited snow load (with no wind) that varies by size.
In case of snow, it is advised to the blades must be placed vertically (open) before the snow settles on them. Do not stand under or near the pergola if any snow has deposited on it.

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

Wind Resistance [kg/m²] Without Integrated ZIP Screens

"S" \ "L"	G	L	200	250	300	350	400	425
210		9	369	280	192	103	84	74
250		11	331	255	179	103	84	74
290		13	294	230	167	103	84	74
330		15	256	205	154	103	83	74
370		17	219	180	142	103	83	74
410	2	19	181	155	129	103	83	74
450		21	168	144	119	95	77	68
490		23	155	132	110	87	71	63
530		25	142	121	100	79	65	58
570		27	129	110	90	71	59	52
610		29	116	98	81	63	52	47

Wind Resistance [kg/m²] Integrated ZIP Screens closed or semi-closed on 2 or 4 sides

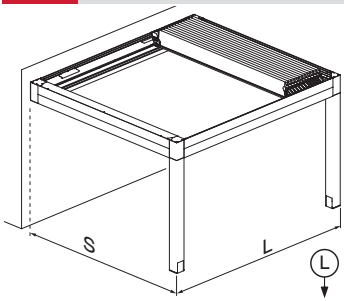
"S" \ "L"	G	L	200	250	300	350	400	425
210		9	308	281	254	227	186	165
250		11	274	252	230	209	173	156
290		13	240	224	207	190	161	146
330		15	207	195	183	172	148	137
370		17	173	166	160	153	136	127
410	2	19	139	138	136	135	123	118
450		21	128	127	126	125	113	107
490		23	117	116	115	114	103	97
530		25	107	106	105	104	93	87
570		27	96	95	94	93	82	77
610		29	85	84	84	83	72	67

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

COMPLEMENTS
- Blades Insulation.
- Lighting with BLADE LED SPOT.

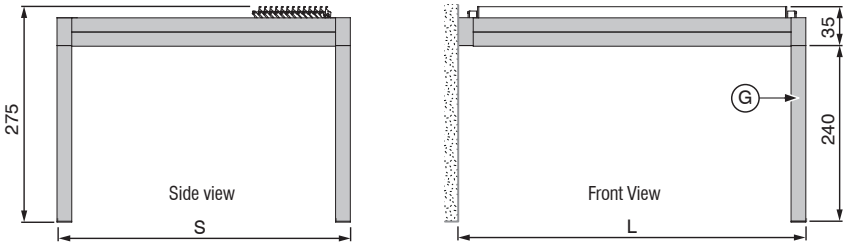
COMPLEMENTS
- Interface for Smart Devices control.
- Radio interface for Domotic System.
- Misting System.
- Electronic De-Icing System in the gutters.
- Heaters.
- Sound system
- Arm awnings installed on the pergola.

4.4 SWAY LATERAL LEANING VERSION



STANDARD
- Posts 130x130 mm.
- Wall flashing profile.

LATERAL LEANING VERSION SINGLE MODULE
2 LEGS max. S x L 4,25 x 6,10



PROJECTION "S" (cm)	1 Module	WIDTH "L" (cm)												G	L
		150	175	200	225	250	275	300	325	350	375	400	425	n°	n°
		kg													
	150	221	238	254	271	288	304	321	338	354	371	388	404	2	6
	170	238	256	274	292	310	328	346	364	382	400	418	436		7
	190	256	275	294	314	333	352	371	391	410	429	449	468		8
	210	273	293	314	335	355	376	397	417	438	459	479	500		9
	230	290	312	334	356	378	400	422	444	466	488	510	532		10
	250	307	331	354	377	401	424	447	470	494	517	540	564		11
	270	325	349	374	398	423	448	472	497	522	546	571	595		12
	290	342	368	394	420	446	472	498	523	549	575	601	627		13
	310	359	386	414	441	468	495	523	550	577	605	632	659		14
	330	376	405	433	462	491	519	548	577	605	634	662	691		15
	350	393	423	453	483	513	543	573	603	633	663	693	723		16
	370	411	442	473	505	536	567	598	630	661	692	723	755		17
	390	428	461	493	526	558	591	624	656	689	721	754	787		18
	410	445	479	513	547	581	615	649	683	717	751	784	818		19
	430	462	498	533	568	603	639	674	709	744	780	815	850		20
	450	480	516	553	589	626	663	699	736	772	809	845	882		21
	470	497	535	573	611	649	686	724	762	800	838	876	914		22
	470	514	553	593	632	671	710	750	789	828	867	907	946		23
	510	531	572	613	653	694	734	775	815	856	896	937	978		24
	530	549	591	632	674	716	758	800	842	884	926	968	1009		25
	550	566	609	652	696	739	782	825	868	912	955	998	1041		26
	570	583	628	672	717	761	806	850	895	939	984	1029	1073		27
	590	600	646	692	738	784	830	876	921	967	1013	1059	1105		28
	610	618	665	712	759	806	854	901	948	995	1042	1090	1137		29

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/m²]								
"S" \ "L"	G	L	200	250	300	350	400	425
210	2	9	1009	783	557	331	267	236
250		11	909	712	515	318	259	230
290		13	809	641	473	304	251	224
330		15	710	570	430	291	242	218
370		17	610	499	388	277	234	212
410		19	510	428	346	264	225	206
450		21	444	373	301	230	196	180
490		23	379	318	256	195	167	153
530		25	313	262	212	161	138	127
570		27	248	207	167	126	109	101
610		29	182	152	122	92	80	75

Snow load without wind [kg/m²]								
"S" \ "L"	G	L	200	250	300	350	400	425
210	2	9	664	515	366	217	176	156
250		11	588	460	332	205	168	150
290		13	512	405	299	193	160	144
330		15	435	350	265	180	152	138
370		17	359	296	232	168	144	132
410		19	283	241	198	156	136	126
450		21	246	209	172	135	118	109
490		23	208	177	146	114	100	92
530		25	171	145	119	94	82	76
570		27	133	113	93	73	64	59
610		29	96	81	67	52	46	43

The values reported in the table on the right, show the snow load resistance when there is no wind. The pergola structure and cover are designed and certified to resist a deposited snow load (with no wind) that varies by size.
In case of snow, it is advised to the blades must be placed vertically (open) before the snow settles on them. Do not stand under or near the pergola if any snow has deposited on it.

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

Wind Resistance [kg/m²] Without Integrated ZIP Screens								
"S" \ "L"	G	L	200	250	300	350	400	425
210	2	9	325	249	174	98	81	73
250		11	311	240	170	99	82	74
290		13	297	232	166	100	83	74
330		15	284	223	162	101	83	75
370		17	270	214	158	102	84	75
410		19	256	205	154	103	85	76
450		21	230	185	140	96	79	71
490		23	203	165	127	89	74	66
530		25	177	145	113	81	68	62
570		27	150	125	100	74	63	57
610		29	124	105	86	67	57	53

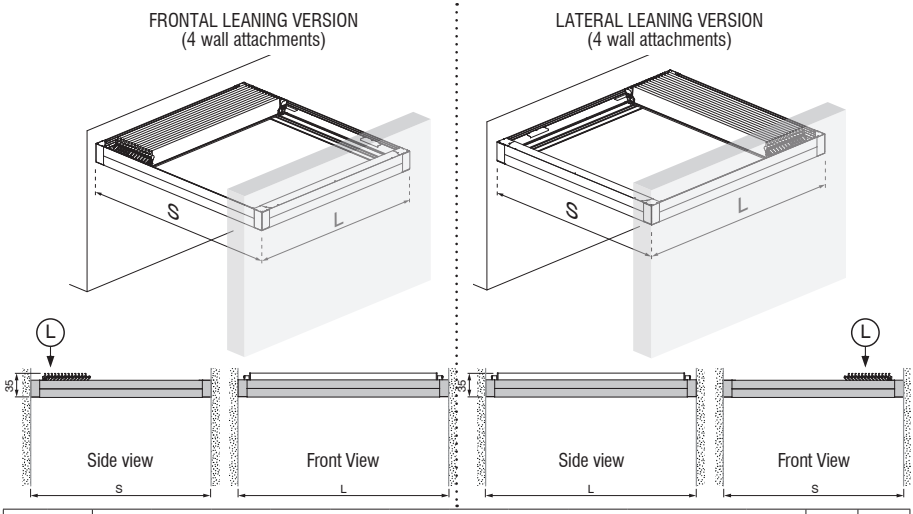
Wind Resistance [kg/m²] Integrated ZIP Screens closed or semi-closed on 2 or 4 sides								
"S" \ "L"	G	L	200	250	300	350	400	425
210	2	9	279	227	176	124	131	135
250		11	277	225	174	122	125	126
290		13	274	223	172	121	118	117
330		15	272	221	170	119	111	107
370		17	269	219	168	118	105	98
410		19	267	217	166	116	98	89
450		21	241	197	154	111	95	87
490		23	214	178	142	106	92	84
530		25	188	159	130	102	89	82
570		27	161	140	118	97	85	80
610		29	135	121	106	92	82	78

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

COMPLEMENTS
- Blades Insulation.
- Lighting with BLADE LED SPOT.

COMPLEMENTS
- Interface for Smart Devices control.
- Radio interface for Domotic System.
- Misting System.
- Electronic De-Icing System in the gutters.
- Heaters.
- Sound system
- Arm awnings installed on the pergola.

4.5 SWAY WALL



1 Module		WIDTH "L" (cm)												AP	L
		150	175	200	225	250	275	300	325	350	375	400	425	n°	n°
		kg													
PROJECTION "S" (cm)	150	181	198	215	232	249	266	282	299	316	333	350	367	4	6
	170	198	217	235	253	271	289	308	326	344	362	380	399		7
	190	215	235	255	274	294	313	333	352	372	391	411	430		8
	210	233	253	274	295	316	337	358	379	400	420	441	462		9
	230	250	272	294	316	339	361	383	405	427	450	472	494		10
	250	267	290	314	338	361	385	408	432	455	479	502	526		11
	270	284	309	334	359	383	408	433	458	483	508	533	557		12
	290	301	327	354	380	406	432	458	484	511	537	563	589		13
	310	318	346	373	401	428	456	483	511	538	566	593	621		14
	330	336	364	393	422	451	480	509	537	566	595	624	653		15
	350	353	383	413	443	473	503	534	564	594	624	654	684		16
	370	370	401	433	464	496	527	559	590	622	653	685	716		17
	390	387	420	453	485	518	551	584	617	650	682	715	748		18
	410	404	438	472	507	541	575	609	643	677	711	746	780		19
	430	421	457	492	528	563	599	634	670	705	741	776	811		20
	450	438	475	512	549	586	622	659	696	733	770	806	843		21
	470	456	494	532	570	608	646	684	722	761	799	837	875		22
	470	473	512	552	591	631	670	709	749	788	828	867	907		23
	510	490	531	571	612	653	694	735	775	816	857	898	939		24
	530	507	549	591	633	675	718	760	802	844	886	928	970		25
	550	524	568	611	655	698	741	785	828	872	915	959	1002		26
	570	541	586	631	676	720	765	810	855	899	944	989	1034		27
	590	559	605	651	697	743	789	835	881	927	973	1019	1066		28
	610	576	623	671	718	765	813	860	908	955	1002	1050	1097		29

Legend:

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

AP = Wall fixing.

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/m²]

"S" \ "L"	AP	L	200	250	300	350	400	425
210		9	1000	783	557	331	269	238
250		11	909	712	515	318	260	231
290		13	809	641	473	305	252	225
330		15	710	570	431	291	243	219
370		17	610	499	389	278	235	213
410	4	19	510	428	347	265	226	207
450		21	443	385	328	270	223	200
490		23	375	342	309	275	221	193
530		25	308	299	290	281	218	186
570		27	280	275	263	248	215	180
610		29	170	251	234	214	176	173

Snow load without wind [kg/m²]

"S" \ "L"	AP	L	200	250	300	350	400	425
210		9	660	515	366	217	176	156
250		11	587	460	332	204	168	150
290		13	510	404	298	191	159	143
330		15	434	349	264	179	151	137
370		17	357	293	229	170	142	130
410	4	19	280	238	195	168	140	124
450		21	243	215	188	166	138	121
490		23	205	193	181	164	137	119
530		25	175	175	173	162	136	116
570		27	172	170	165	160	135	114
610		29	165	150	150	140	135	111

The values reported in the table on the right, show the snow load resistance when there is no wind. The pergola structure and cover are designed and certified to resist a deposited snow load (with no wind) that varies by size.
In case of snow, it is advised to the blades must be placed vertically (open) before the snow settles on them. Do not stand under or near the pergola if any snow has deposited on it.

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

Wind Resistance [kg/m²] Without Integrated ZIP Screens

"S" \ "L"	AP	L	200	250	300	350	400	425
210		9	325	249	174	98	81	73
250		11	305	236	167	98	81	73
290		13	285	222	160	98	81	73
330		15	264	209	153	98	81	73
370		17	244	195	147	98	81	73
410	4	19	224	182	140	98	81	73
450		21	206	170	135	99	81	73
490		23	188	159	129	100	81	72
530		25	170	147	124	101	82	72
570		27	152	135	119	102	82	71
610		29	134	124	113	103	82	71

Wind Resistance [kg/m²] Integrated ZIP Screens closed or semi-closed on 2 or 4 sides

"S" \ "L"	AP	L	200	250	300	350	400	425
210		9	429	347	264	182	152	137
250		11	385	315	245	176	147	133
290		13	341	283	226	169	143	130
330		15	296	252	207	163	138	126
370		17	252	220	188	156	134	123
410	4	19	208	189	169	150	129	119
450		21	173	164	156	147	125	114
490		23	140	140	142	144	121	109
530		25	120	120	119	117	117	105
570		27	117	115	115	113	113	100
610		29	115	113	113	109	109	95

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

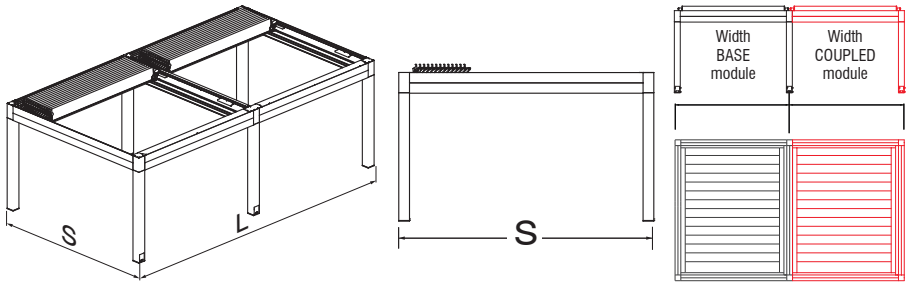
COMPLEMENTS
- Blades Insulation.
- Lighting with BLADE LED SPOT.

COMPLEMENTS
- Interface for Smart Devices control.
- Radio interface for Domotic System.
- Misting System.
- Electronic De-Icing System in the gutters.
- Heaters.
- Sound system
- Arm awnings installed on the pergola.

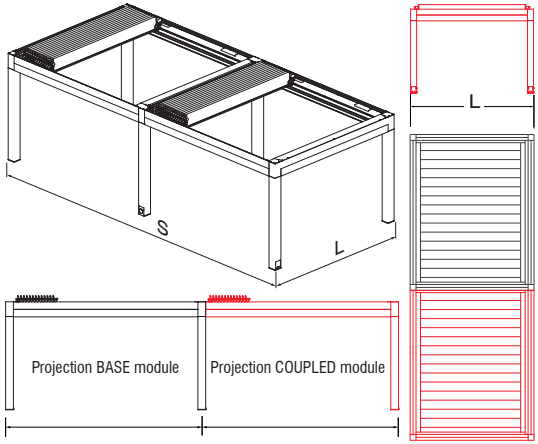
4.6 COUPLING MODULE

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.

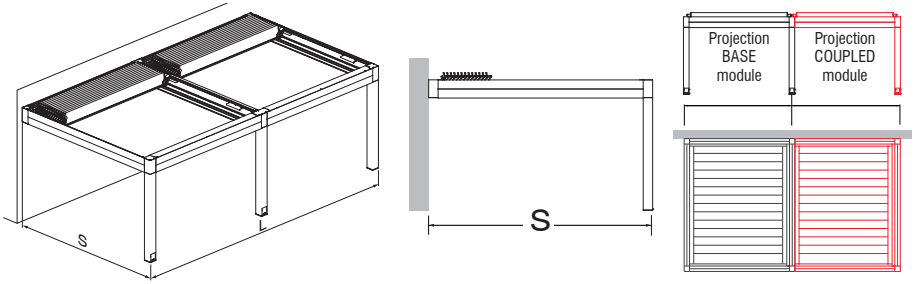
SWAY ISLAND WITH COUPLING MODULE TYPE 1 COUPLING



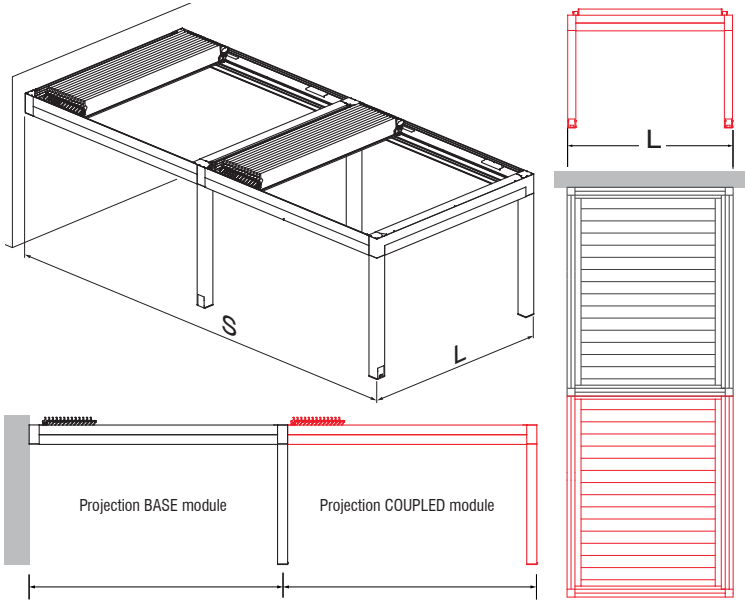
SWAY ISLAND WITH COUPLING MODULE TYPE 2 COUPLING



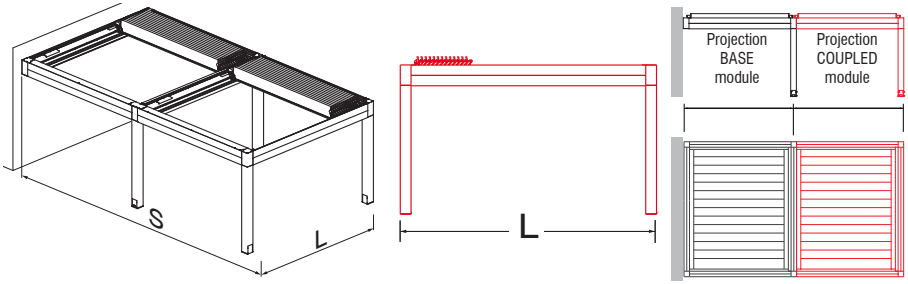
SWAY FRONTAL LEANING VERSION WITH COUPLING MODULE TYPE 1 COUPLING



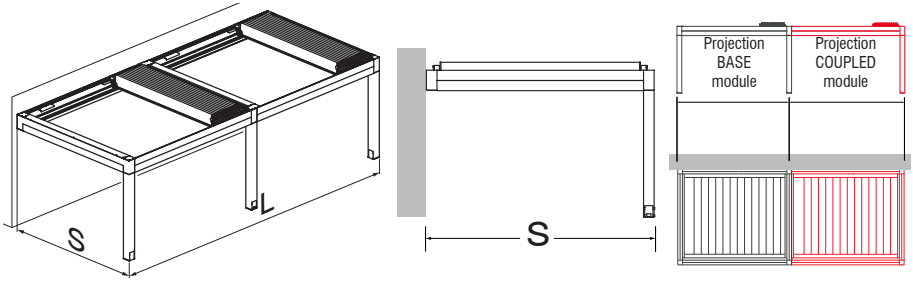
SWAY FRONTAL LEANING VERSION WITH COUPLING MODULE TYPE 2 COUPLING



SWAY LATERAL LEANING VERSION WITH COUPLING MODULE TYPE 1 COUPLING



SWAY LATERAL LEANING VERSION WITH COUPLING MODULE TYPE 2 COUPLING



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 tehcnical 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 with the use of scissors with rounded tips in order to not damage the fabric and the aluminium paint (and the fabric of the side drop awnings). 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 - SWAY 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 - SWAY 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 Pergola is Class I. **Therefore, the structure must be earthed.**

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.**

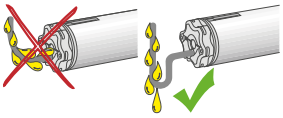
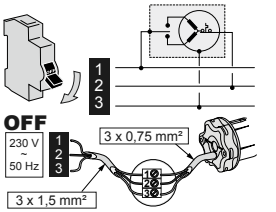
IMPORTANT!: Never connect two or more engines to one single switch / inverter without using a control unit. Do not connect the two switches / inverters to a single engine. There is a risk of induced currents resulting in damage to the engines.

The electrical connection of the motor must be done after the installation and by authorized personnel.

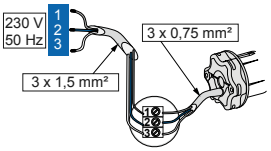
IMPORTANT!: we recommend that you don't connect any device or accessory that is not specified in this instruction manual.
The manufacturer refuses all liabilities for damage caused by the improper use of system devices or for uses that are not given in this instruction manual. For further information, please contact Technical Support.

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

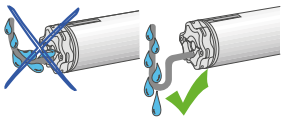
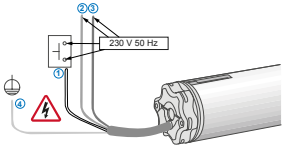
IO SOMFY ENGINES WITH REMOTE CONTROL

WARNINGS	CABLES 230 VAC - 50 HZ	ELECTRICAL WIRING
	N = Neutral L = Phase ⏚ (3) = Ground (Yellow/Green) 1 = Blue 2 = Brown	

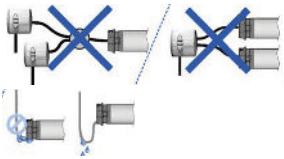
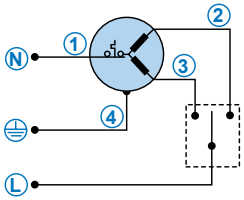
RTS SOMFY ENGINES WITH REMOTE CONTROL

WARNINGS	CABLES 230 VAC - 50 HZ	ELECTRICAL WIRING
	N = Neutral L = Phase ⏚ (3) = Ground (Yellow/Green) 1 = Blue 2 = Brown	

RX CHERUBINI ENGINES WITH REMOTE CONTROL

WARNINGS	CABLES 230 VAC - 50 HZ	ELECTRICAL WIRING
	N = Neutral L = Phase ⏚ (4) = Ground (Yellow/Green) 1 = White 2 = Brown 3 = Blue	

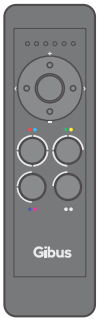
WT SOMFY ENGINES (WIRED)

WARNINGS	CABLES 230 VAC - 50 HZ	ELECTRICAL WIRING
	N = Neutral L = Phase ⏚ (④) = Ground (Yellow/Green) ① = Blue ② = Brown ③ = Black	

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

6.3 RADIO CONTROL FOR SWAY WITH “LINE 24V” MOTORIZATION

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.

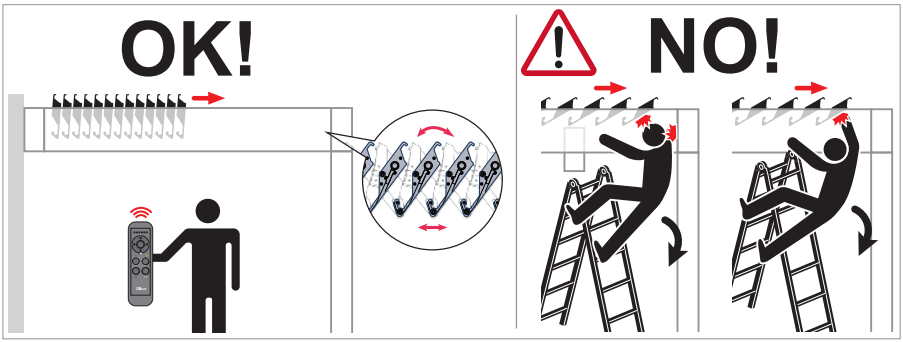
For SWAY with “230V” motorization, depending on the radio protocol chosen, IO, RTS or RX, the carrier frequencies are different; please see the instructions in the accessories box.

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.



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).

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

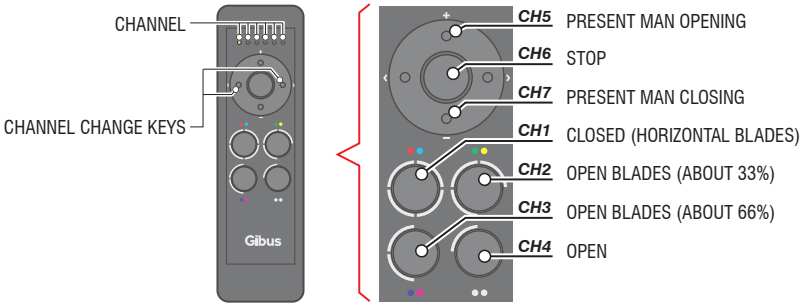
The managing modes of the motors and the transmitter (radio control) have been already set at the factory and, after the electrical connection in the installation phase, the limit switches have already been set in opening mode (i.e. blades retracted/folded) and in closing mode (i.e. blades extended).

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.

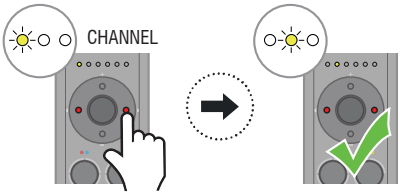
IMPORTANT! The characteristics and operation of the drive systems are described in the manuals herein attached, related to the engine, to the automatisms and commands required.

CHANNEL TRANSMITTER WITH PROGRAMMED CHANNEL FOR THE MOTOR

Example: 9 channel/63 position transmitter with **Line 24V** motorization

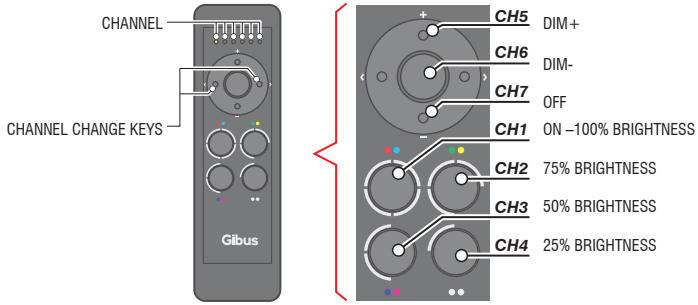


6-CHANNEL MODE: THE 6 LEDS INDICATE 6 COMMAND GROUPS. PRESS THE KEYS "A" OR "B" TO SWITCH BETWEEN CHANNELS OF THE TRANSMITTER. THE SELECTION REMAINS IN MEMORY, EVEN WITH THE TRANSMITTER OFF,
UNTIL THE NEXT CHANGE. IT IS SUFFICIENT TO PRESS A KEY OF ANY CHANNEL TO REACTIVATE THE LAST SELECTION.



TRANSMITTER WITH PROGRAMMED CHANNEL FOR BLADE SPOT LEDS

Example: 9 channel/63 position transmitter with **Line 24V** motorization

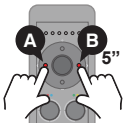


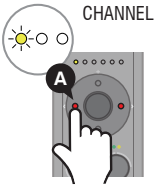
The intensity level of the led light is 25% when the motor is operating.

MULTI-TRANSMITTER MODE (UP TO 9 CHANNELS)

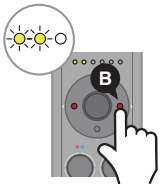
The multi-transmitter mode is necessary when the pergola has more than 6 complements / accessories to associate.

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.





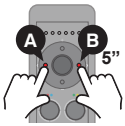
KEY “A”: 1÷6 CHANNELS



KEY “B”: 7÷9 CHANNELS

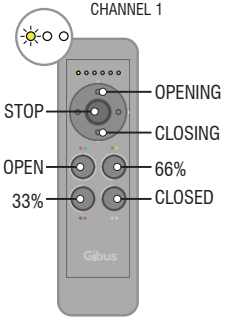
With this function activated, **press the key “A” of the transmitter to manage the standard groups from 1 to 6 (for each channel the corresponding led comes on).**
Press the key “B” of the transmitter to manage additional groups from 7 to 9 (a couple of leds turn on each channel).

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.

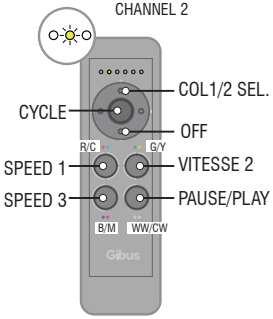


EXAMPLES OF TRANSMITTER WITH PROGRAMMED CHANNELS:

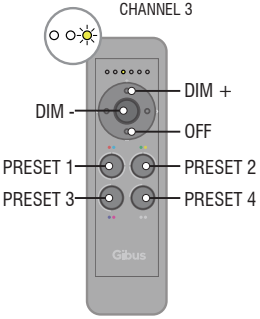
PERGOLA COMMANDS



RGB DIMMER COMMANDS



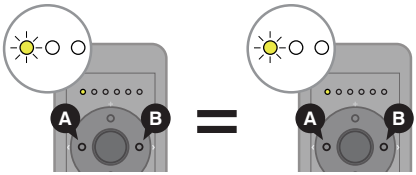
DIMMER COMMANDS



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

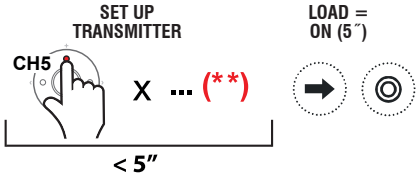
ATTENTION: copy only one channel per time. Position on the channel to copy (using the keys "A" or "B") both on the set up transmitter and the new one:



MEMORIZED

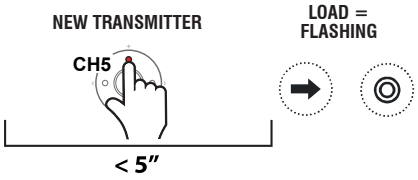
Press the P3 key of the set up transmitter. The enabled receiver switches on for 5 seconds.

Within 5", press a key of the set up transmitter as many times necessary to arrive at the mode you want to associate: **(**)**. After every press, the load switches off. After 1" from the last press, the load switches on again for 5".



(**) NUMBER OF TIMES			
BLADE MOVEMENT	 x7	• PERIMETER LED SPOT • PERIMETER LED STRIP RGB • LED STRIP WHITE • PERIMETER VERTICAL BLINDS	 x1

Press the key of the new transmitter and keep it pressed until the load flashes.

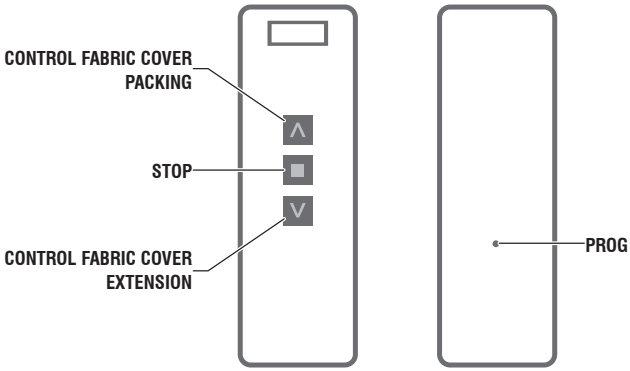


CHANNEL TRANSMITTER WITH PROGRAMMED CHANNEL FOR THE MOTOR

Example: Multi-channel transmitter with **230V** motorization

The **230V** motorized running of the awning with radio motors involves the use of a radio control which allows to control the movements of the fabric cover in a simple and intuitive way:

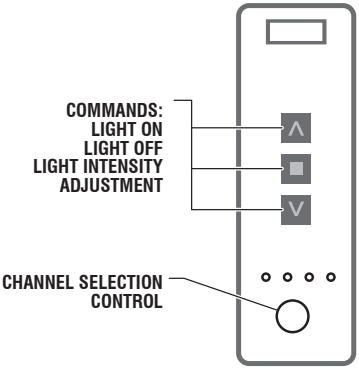
The button ▲ controls the packing of the fabric cover while the button ▼ controls the extension of he fabric cover.
The button ■ stops the movement of the awning.



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

If there are more functions than the motor such as SPOT lights or RGB lights, the remote control has multiple channels.
A function is programmed in each channel, e.g. motor in channel 1, SPOT lights in channel 2, RGB lights in channel 3 etc.

To switch on, press ▲.
to switch off press ▼.
for intensity 50% press ■ (MY).
to reduce intensity, long press ▼.
to increase intensity, long press ▲.



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

ATTENTION: retract the brise-soleil blades by positioning them vertically in case of very heavy rain or hail. Retract/fold them up to 2/3 - about 66% in case of strong wind, snow and ice; it is dangerous to leave the extended blades closed horizontally in these cases because it can cause injury to people or damage to property.
The brise-soleil blades must be retracted up to 2/3 - about 66% before the snow accumulates on them. In fact, once snow has deposited onto them, it could prevent the blades from being retracted and folded.

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 270 Newton/m^2 corresponding to a continuous wind at a maximum speed of 70 Km/h according to the Beaufort scale. For safety reasons, it is advisable to retract the blades before this limit is reached. If no sensor is installed, control the blades manually if there is 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).

If the bioclimatic pergola's blades were closed and ice or snow have deposited on them, do not move the blades until all the snow has been removed or the ice has melted. Otherwise, the movements could be blocked and the components 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!: 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 or fatal electric shock. only qualified electricians must carry out the maintenance to the electrical parts.

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

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.

Cleaning the fabric cover (if present):
- **do not use solvents – ammonia – hydrocarbons;**
- **follow the instructions shown on the label of the fabric cover; do not dry wash; do not wash in the washing machine (for washing of the Cristal, the use either of very alkaline detergents or any kind of substance or abrasive equipment are not recommended, which tend to dull and create micro-fractures, decreasing the transparency);**
- **leave the fabric open to dry after cleaning. Don't roll up the wet fabric.**

For more information consult the information sheet of the fabric used in the current sample and when in doubt consult your dealer.

Follow the following procedure to safely clean the fabric:
- Extend the awning.
- Release the tension in the awning.
- Clean the exposed fabric (follow the instructions) using the appropriate method, with a vacuum or other device.

9.2 MAINTENANCE OF THE PERGOLA

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

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

- 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

SWAY

CLIENTE Data		N° OLOGRAMMA
N°	**ELENCO "OPERAZIONI DI MANUTENZIONE"**	**CHECK**
VERIFICA DEL CORRETTO FUNZIONAMENTO DELLA MOVIMENTAZIONE - LAME FRANGISOLE E MOTORI		**OK/NO**
1	MOVIMENTARE LE LAME COMANDANDO ESCURSIONE COMPLETA DA TUTTO CHIUSO A TUTTO APERTO E VICEVERSA	□ ____
2	VERIFICARE L'EVENTUALE PRESENZA DI CORPI ESTRANEI CHE OSTRUISCANO IL MOVIMENTO E NEL CASO RIMUOVERLI	□ ____
3	CONTROLLARE CORRETTA POSIZIONE DELLE BARRE DI TRAINO A FINE CORSA IN APERTURA E CHIUSURA	□ ____
4	LUBRIFICARE LE SEDI DELLE PARTI IN MOVIMENTO CON TEFLON SPRAY (SELLETTE PLASTICA BARRE DI TRAINO – CAMME PORZIONE GUIDA IN ACCOPP. CON ROTELLA)	□ ____
5	COMANDARE CON IL TELECOMANDO LA PROCEDURA DI APPRENDIMENTO DEI LIMITI	□ ____
CONTROLLO STATO ED EVENTUALE OSTRUZIONE GRONDAIE PERIMETRALI E GRONDAIE LAME FRANGISOLE. CONTROLLO STATO ED EVENTUALE OSTRUZIONE COLLARI E I TUBI DI SCARICO ANGOLARI IN CIMA ED AL PIEDE COLONNE.		**OK/NO**
6	ISPEZIONARE GRONDAIE, PLUVIALI, COLONNE, SCARICHI	□ ____
7	RIMUOVERE ELEMENTI CHE OSTRUISCONO IL DEFLUSSO DELL'ACQUA LIBERANDO LE PARTI DA EVENTUALI CORPI ESTRANEI	□ ____
8	CONTROLLARE CORRETTO STATO SIGILLATURE: (IN PARTICOLARE ANGOLI GRONDAIE E TAPPI GRONDAIETTE PORTA LED PERIMETRALI)	□ ____
CONTROLLO STATO DELLA STRUTTURA PORTANTE		**OK/NO**
9	CONTROLLARE IL SERRAGGIO E LO STATO DI INTEGRITÀ DELLA BULLONERIA E VITERIA	□ ____
10	CONTROLLARE CHE GLI ATTACCHI A PAVIMENTO ED A MURO SIANO IN PERFETTO STATO	□ ____
11	CONTROLLARE LO STATO NELL'INTORNO DEGLI ATTACCHI (IN PARTICOLARE L'ASSENZA DI CREPE ED IL CORRETTO SERRAGGIO DELLE VITI) ED IN CASO COMUNICARLO AL CLIENTE	□ ____
CONTROLLO STATO DI SENSORI, AUTOMATISMI E PARTI ELETTRICHE		**OK/NO**
12	VERIFICARE IL FUNZIONAMENTO DEI TELECOMANDI E LO STATO DELLE BATTERIE	□ ____
13	VERIFICARE IL FUNZIONAMENTO DEI SENSORI (SE PRESENTI)	□ ____
14	VERIFICARE IL FUNZIONAMENTO DELL'IMPIANTO DI ILLUMINAZIONE (SE PRESENTI)	□ ____
15	VERIFICARE IL FUNZIONAMENTO DELL'IMPIANTO AUDIO (SE PRESENTI)	□ ____
16	VERIFICARE L'INTEGRITÀ DELLE CONNESSIONI ELETTRICHE	□ ____
CONTROLLO STATO DELLE TENDE A CADUTA LATERALI O VETRATE LATERALI		**OK/NO**
17	EFFETTUARE I CONTROLLI A SECONDA DEL TIPO DI CHIUSURE PERIMETRALI PRESENTI	□ ____
18	**EFFETTUARE LE REGISTRAZIONI NEI MANUALI O NELLE SCHEDE TECNICHE DI MANUTENZIONE DEI SINGOLI PRODOTTI**	□ ____

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.

ATENTION: 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 collect-ed 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 environ-mentally compatible disposal of the disused electric and electronic equipment avoids nega-tive 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
During handling of the awning the driving front does not move forward at right angles to the guides.	The trolleys are misplaced: the driving trolleys were properly compacted prior to insertion of the drive shaft during installation.	Remove the engine shaft. Align the driving trolleys and reinsert the engine shaft.
The awning does not completely pack. The awning does not completely extend.	Incorrect adjustment of limit switches.	Repeat the adjustment of limit switches as per installation instructions.
The engine is very noisy.	Faulty engine.	Request for technical servicing.
The engine does not start up.	Faulty wiring.	Check the electrical circuit with the diagrams annexed.
	Faulty engine.	Check the operation of the engine and replace if necessary
The motor stops after 4-5 minutes after continuous running	Thermal protection of the motor triggers.	Allow the engine to cool down.

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

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

CHAPTER 12: CONVENTIONAL WARRANTY UP TO THE FIFTH YEAR

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

Art.1 GIBUS PRODUCTS

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

Art.2 LEGAL GUARANTEE OF THE SELLER

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

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

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

Art.4 CONVENTIONAL GUARANTEE

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

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

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

Art.6 LIMITS OF THE CONVENTIONAL GUARANTEE

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

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

Art.7 WITHOUT EXPENSES

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

Art.8 TERRITORIAL EXTENSION

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

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

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

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

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

Art.10 EXCLUSIONS

In addition to the other cases mentioned above, the conventional guarantee is not effective if the product is used for purposes other than those for which it is designed or in ways prohibited by the instructions given in the "Use and Maintenance Manual", which is attached to the product and delivered by the authorized seller; the conventional guarantee is also excluded if the product is used in any commercial, entrepreneurial or professional businesses, unless it is agreed upon differently.
Furthermore, the following is not covered by the conventional guarantee: non-conformities and/or defects due to negligence or carelessness in use (such as failure to comply with the instructions for the correct operation of the product), improper installation, installation or maintenance carried out by personnel who are not employed by an authorized Gibus Dealer or by personnel who are not expressly proven to be addressed by the authorized Dealer, as well as transport damage, or damage due to products or spare parts or components that are not recognized as defective by GIBUS S.p.A.
The conventional guarantee is not effective even in cases of improper use of the product if strong wind occurs beyond the limits indicated by the manufacturer, as well as heavy rain, hail, snow, ice and/or other atmospheric events, even combined, in the event of failure of the wall where the Pergola is fixed, and finally, in case of tampering with the product and use of non-original GIBUS spare parts and components.
The Conventional guarantee is not effective in the following cases:

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

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

Art.11 RESPONSIBILITY OF THE MANUFACTURER

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

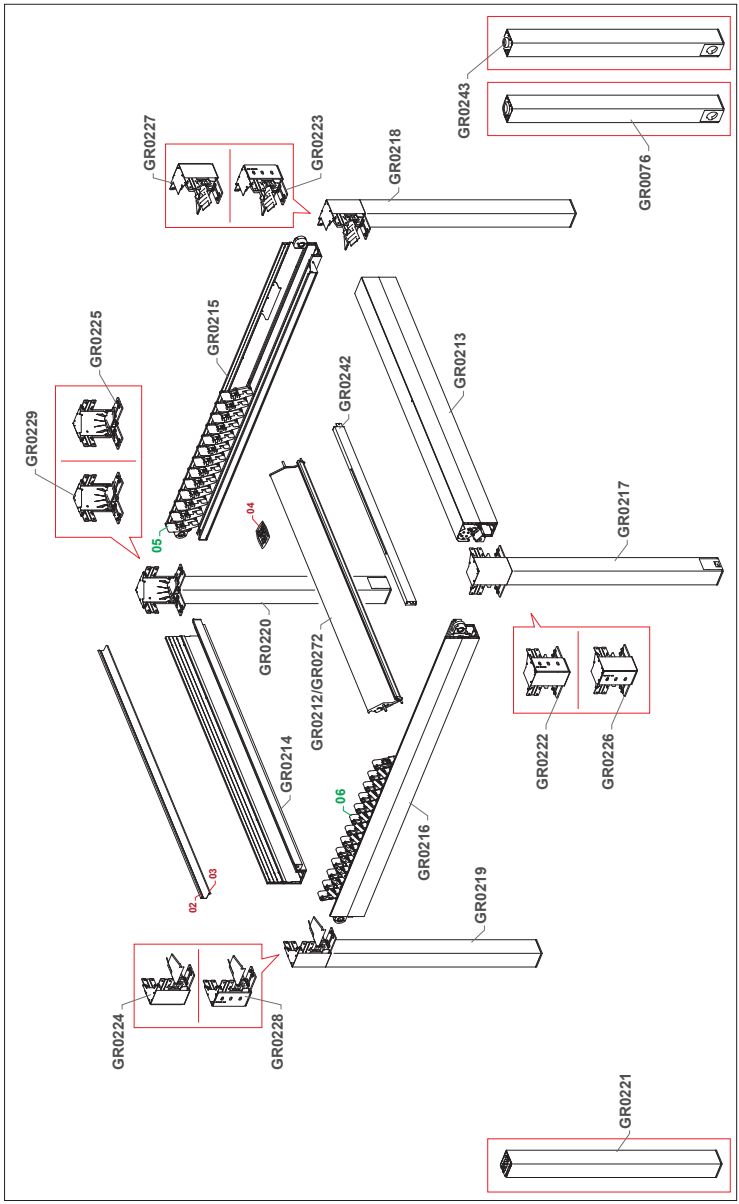
Art.12 FINAL REMARKS

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

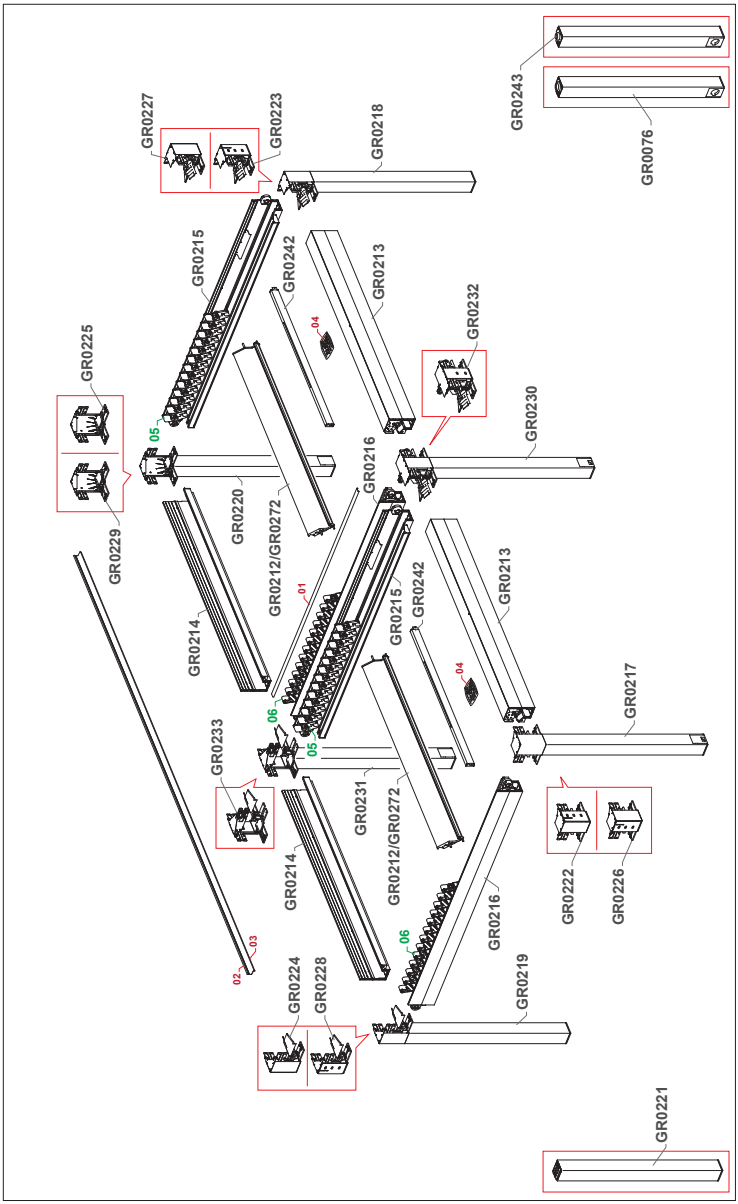
This warranty is issued by:
Gibus S.p.A.
via Einaudi 35 35030
Saccolongo (PD) - ITALY
For any dispute, is elected as the only jurisdiction that of Padua Italy.

CHAPTER 13: EXPLODED DRAWING OF *SWAY*

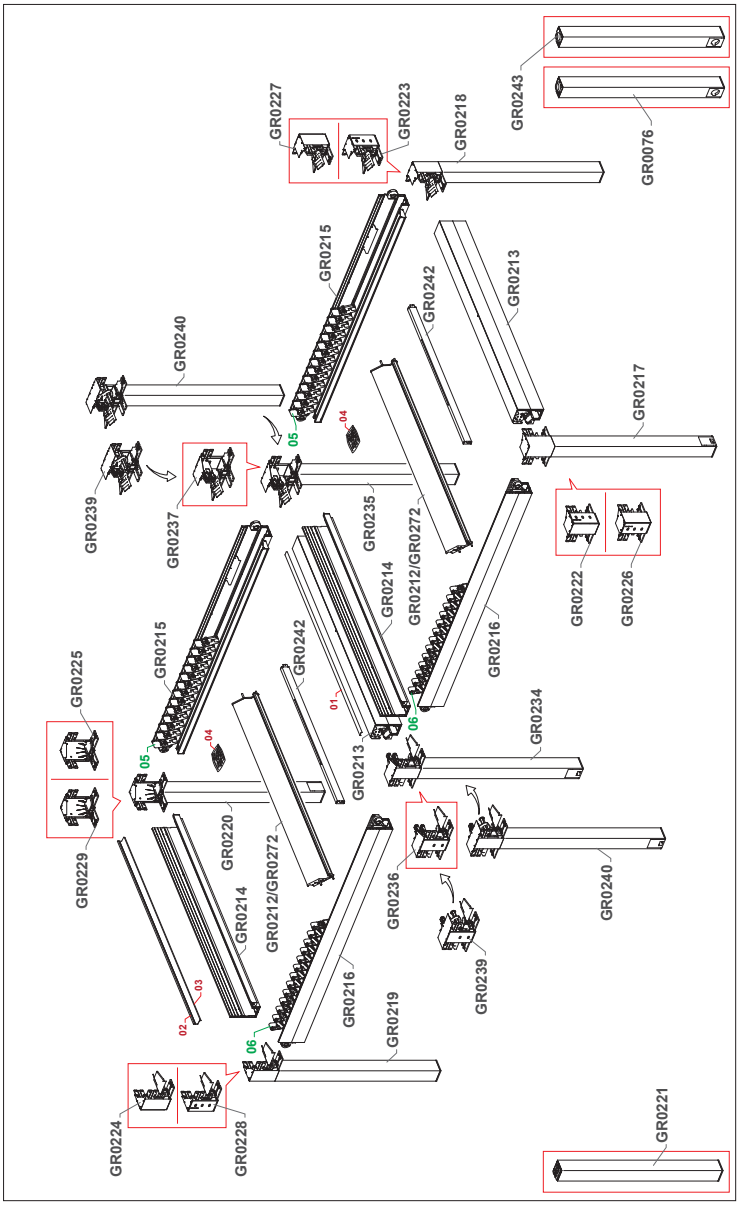
13.1 1 MODULE



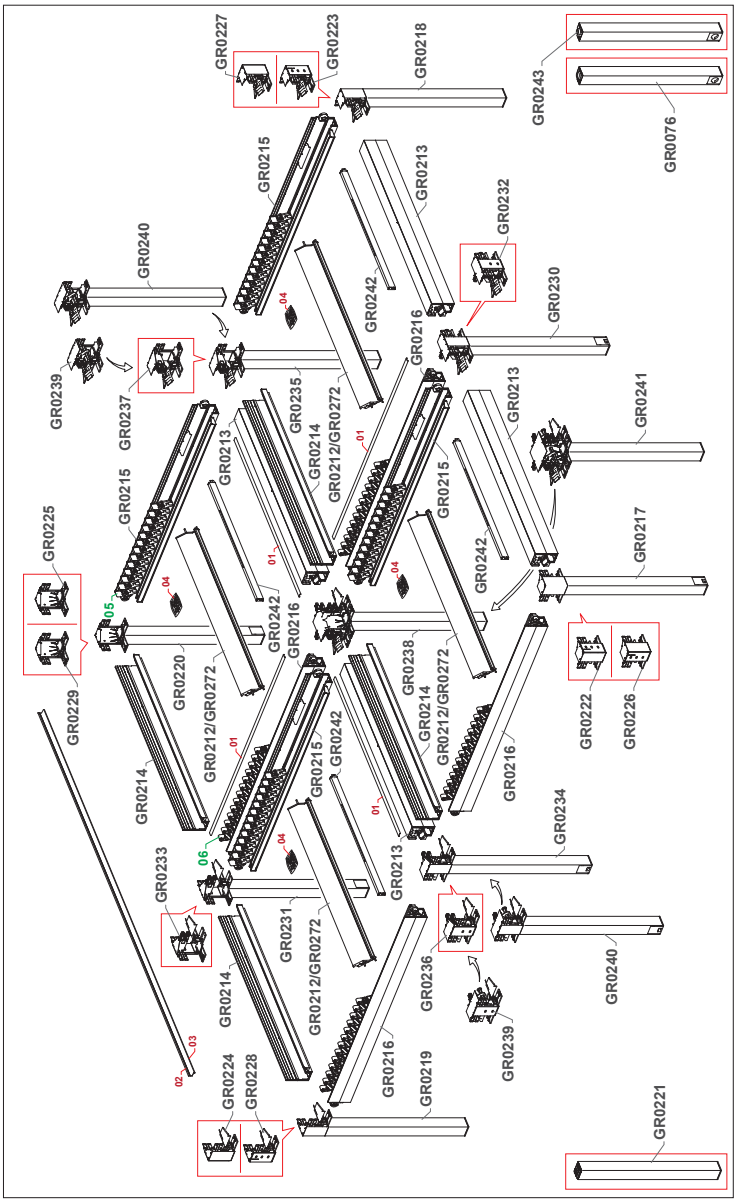
13.2 COUPLING MODULE TYPE 1



13.3 COUPLING MODULE TYPE 2



13.4 CROSS-SHAPED COUPLING



CHAPTER 14: TECHNICAL NOTES

14.1 DECLARATION OF INSTALLATION

DECLARATION OF INSTALLATION (to be filled by the installer)			
SWAY			
☐ ISLAND ☐ WALL ☐ FRONT LEANING ☐ SIDE LEANING	☐ 1 MODULE ☐ COUPLED	☐ OTHER	
Size L: S:	**Fabric** Type: Colour:	**Motor** Type:	**Automations** Type:
The undersigned:	of the Company:	Reference:	
as:	Address:		

Declares under his sole responsibility
- 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: Installation Notes:	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 2nd year	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 3nd 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:

IMPORTANT!: Extraordinary maintenance is compulsory and should be carried out by a Gibus specialized technician by the end of the second year from the awning's installation; this will extend the warranty up to the 3rd year from the installation date. Use Gibus original spare parts to keep the warranty valid. Accordingly, a compulsory maintenance operation within the end of the 3rd year from the installation date is to be required to the Gibus specialized technician and that will extend the warranty to the 4th year; a compulsory maintenance in the 4th year from the installation date will extend the warranty to the 5th year.

Mandatory Maintenance Notes:

ADDITIONAL Installation Notes:

ADDITIONAL Mandatory Maintenance Notes:

14.2 MAINTENANCE AND NOTE REGISTER

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

NOTES:

14.3 PRODUCTION NOTES

See the product sheet attached to the back cover.

CHAPTER 15: ANNEXES

ANNEX 0 - EC MARKING

THE SUN FACTORY

EN 13561

Via Einaudi, 35 - 35030 Saccolongo (PD)
22

Declaration of Performance no: **MUT 115-CPR-15-02-2022**
Drop awning for outdoor use
MODEL: Gibus® mod. SWAY
Wind resistance: **Technical class 5**
Total solar energy transmittance $_{gtot}$: **See the production specifications on the back cover**

ANNEX 1 - SELF-CERTIFICATION DOCUMENT (*)

PERFORMANCE DECLARATION no: MUT 115-CPR-15-02-2022

1. Unique identification code for the product-type: Gibus® mod. SWAY
2. Serial number: **see the HOLOGRAM on the back cover**
3. Designed use: **Drop awning for outdoor 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					
Solar factor g_{tot}	See the value in the product specifications on the back cover (**)					
	Class	0	1	2	3	4
according to EN 14501	g_{tot}	$g_{tot} >= 0,50$	$0,35 <= g_{tot} < 0,50$	$0,15 <= g_{tot} < 0,35$	$0,10 <= g_{tot} < 0,15$	$g_{tot} <= 0,1$

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, 15/02/2022
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

Gibus® THE SUN FACTORY

UK CA EN 13561

Via Einaudi, 35 - 35030 Saccolongo (PD)
22

Declaration of Performance no: **MUT 115-CPR-30-10-2022**
Drop awning for outdoor use
MODEL: Gibus® mod. SWAY
Wind resistance: **Technical class 5**
Total solar energy transmittance $_{gtot}$: **See the production specifications on the back cover**

ANNEX 3 - SELF-CERTIFICATION DOCUMENT (*)

PERFORMANCE DECLARATION no: MUT 115-CPR-30-10-2022

1. Unique identification code for the product-type: Gibus® mod. SWAY
2. Serial number: **see the HOLOGRAM on the back cover**
3. Designed use: **Drop awning for outdoor 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					
Solar factor g_{tot}	See the value in the product specifications on the back cover (**)					
	Class	0	1	2	3	4
according to EN 14501	g_{tot}	$g_{tot} >= 0,50$	$0,35 <= g_{tot} < 0,50$	$0,15 <= g_{tot} < 0,35$	$0,10 <= g_{tot} < 0,15$	$g_{tot} <= 0,1$

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, 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.

Gibus S.p.A.
via Luigi Einaudi, 35
35030 Saccolongo (PD) - ITALY
www.gibus.it - gibus@gibus.it

HOLOGRAM

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.