

***Manuel
for the consumer***

Foldaway awnings

***TC110, TC120, TC130,
PR210, PR220, PR230,
LX530, CA430, BX260,
BX270, Tucan, Cadiz,
Praia, Lux***

HAROL®

ATTENTION: GENERAL WARNINGS

Several precautions must be taken for safe use and maintenance of this solar shading product. For your own safety and the safety of others, observe the following warnings and instructions.
In case of doubt, contact your supplier.

! This guide describes how to use and operate a standard solar shading product. Besides the instructions given here, instructions provided in other documents may apply for other components (such as electrical components).

! Read this guide carefully before using the product.

! All supplied components are designed for this particular solar shading product. Adding other components can have an adverse effect on the safety of the solar shading product. The warranty is void if components are added or modified without consultation with the supplier.

! Never allow unauthorised persons (especially children) to operate this solar shading product. They could be exposed to hazards while operating the product.

! No rights can be derived from this guide. We reserve the right to make technical modifications without written notice.

! Your supplier is obliged to deliver your solar shading product to you in accordance with locally applicable standards and requirements.

! Check that the required markings (CE) have been applied and the required document are included with the product.

! A SOLAR SHADE IS A LARGE, HEAVY MOVING OBJECT. IMPROPER OPERATION, MALFUNCTIONS OR CARELESS ACTIONS CAN CREATE A HAZARD OR CAUSE INJURIES. CONTACT YOUR SUPPLIER WITH REGARD TO ANY QUESTIONS OR MATTERS THAT ARE NOT EXPLAINED OR NOT SUFFICIENTLY EXPLAINED IN THIS GUIDE. ALWAYS EXERCISE CAUTION WHEN USING THIS SOLAR SHADING PRODUCT.

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DANGER: RISK OF
PINCHING OR TRAPPING !



DANGER: RISK OF CUTS



ATTENTION: DANGER!



ATTENTION: SAFETY INSTRUCTIONS FOR THIS SOLAR SHADING PRODUCT

Improper installation, maintenance or operation of this solar shading product can create a hazard or cause injuries. This solar shading product must bear a CE label.

Follow these safety instructions:

- A. Always have installation, maintenance and repair work be performed by a qualified and experienced installer.
- B. Read the installation guide for this solar shading product before carrying out any installation, maintenance or repair work. Do not start any work if the guide for the solar shading product is not available.
- C. Keep a safe distance from a moving solar shade. A moving solar shade can create a hazard or cause injuries.
- D. Do not allow children to operate the solar shade.
- E. Always keep the solar shade in sight when operating it. People (especially children) or objects may be in the way.
- F. Watch your fingers around moving folding arms, front profiles, the box and other moving parts of the solar shade.
- G. Ensure that the solar shade is inspected and maintained regularly.



DANGER:
THE FOLDING ARMS ARE UNDER VERY HIGH MECHANICAL TENSION.
DO NOT ATTEMPT TO REPAIR, ADJUST OR DISMANTLE THEM ON YOUR OWN.

*That can create a hazard or cause injuries. Call a qualified installer!
Read the guide before installing or repairing the product.*

*Read through this guide carefully before carrying out any work on this solar shading product. It is important to follow the instructions in this guide in order to ensure personal safety.
Store this guide in a safe place. If you sell or dispose of this solar shading product to another person, this guide must be given to the new owner.
The supplier is not liable for any loss or damage resulting from incorrect use of the solar shading product.*

1. OPERATING PRINCIPLE

The solar shade has a roller tube around which the solar shade fabric is wound when it is rolled up. When the fabric is unrolled, the folding arms (which are under tension) push the extension pole outwards and hold the fabric under tension when it is extended. The drop of the awning can be adjusted in height according to the situation.



NEVER DISASSEMBLE A FRONT PROFILE, FOLDING ARM, BEARING SUPPORT, WALL CONSOLE, OR ANY OTHER PART OF THE SOLAR SHADE. THOSE ACTIVITIES ARE RESTRICTED TO QUALIFIED, COMPETENT PERSONNEL.

2. OPENING AND CLOSING



- ALWAYS KEEP THE SOLAR SHADE IN SIGHT WHEN OPENING OR CLOSING IT, AND MAKE SURE NO PERSONS OR OBSTACLES ARE IN THE PATH OF THE FRONT PROFILE.

- CLOSE THE SOLAR SHADE IN THE EVENING. THE USER MUST ALWAYS BE AWARE OF THE STATUS OF THE SOLAR SHADE WHEN IT IS OPEN.

- PREVENT CHILDREN AND UNAUTHORISED PERSONS FROM USING THE SOLAR SHADE IMPROPERLY OR PLAYING WITH THE SOLAR SHADE, SWITCHES OR REMOTE CONTROL UNITS. KEEP REMOTE CONTROL UNITS OUT OF THE REACH OF CHILDREN.



- IF WORK IS BEING PERFORMED IN THE VICINITY OF THE SOLAR SHADE, THE SOLAR SHADE MUST BE CLOSED, AND THE AUTOMATIC CONTROLS AND SUPPLY VOLTAGE MUST BE DISCONNECTED, OR THE CRANK DISENGAGED AND REMOVED.

Opening and closing the solar shade depends on the type of operating mechanism fitted to the solar shade. There are two options: crank operation and electric drive.

2.1 Opening and closing with crank operation

With this type of mechanism, the solar shade is operated manually using a crank rod that can be hooked into a crank mechanism eye that projects from the box.

Never try to force the crank rod or crank mechanism. Avoid abrupt or sudden motions.

To avoid damage, hold the crank rod aligned to the axis of the crank mechanism.

OPENING

Hook the crank rod into the eye. Hold the crank rod securely by the handles and turn it to open the awning. Avoid abrupt or sudden motions.

Stop turning when the awning is fully open (with the folding arms fully extended). Otherwise the fabric will sag, and it may be wound incorrectly onto the fabric roller when it is rolled up.

CLOSING

Roll up the awning by turning the crank rod hooked into the eye. Stop turning when the front profile rests against the box. Never try to force the mechanism.

Unhook the crank rod and store it in a dry place.

2.2. Opening and closing with an electric drive

With this type of mechanism, the solar shade is driven by an electric motor.

If you hear abnormal noises during operation, stop the solar shade and inform your installer.

The following is a condensed set of user instructions. For more extensive instructions, refer to the user instructions for the electrical drive concerned.

OPENING

Press the down-pushbutton of the switch unit, remote control or automatic control unit (or hold the button pressed in case of a momentary-action switch).

STOPPING

Press the stop-pushbutton of the switch unit, remote control or automatic control unit.

CLOSING

Press the up-pushbutton of the switch unit, remote control or automatic control unit (or hold the button pressed in case of a momentary-action switch).

3. CLOSING THE SOLAR SHADE

The following must be borne in mind when closing the solar shade:

To avoid the risk of pinching, keep your head, fingers and other body parts clear of the box when the front profile comes to rest against the box.

Watch out for pinching hazards in the vicinity of the folding arms.

Remove the lateral flap(s) before closing the awning.

4. IMPROPER USE

The solar shading system is designed for solar shading and is thus not suitable for use as an all-weather-protection-awning. Improper use can lead to severe hazards.

PRECAUTIONS :

- * Do not expose the solar shading system to wind loads greater than 35 km/h or 5 Beaufort (Wind Resistance Class 2). Excessive wind loads can cause severe damage to the fabric, mechanism, and mounting or fixing components. The wind resistance class (2 or lower) actually achieved after installation of the awning depends on the type of fixing materials used and the available mounting surface. Do not use the solar shade under wind conditions exceeding the wind resistance class, stated local by the installer. That may be lower than the wind class specified by the manufacturer.
- * Do not roll out the solar shade in the rain if the slope of the awning is less than 25% (14 degrees) measured with reference to the horizontal. Ensure adequate drainage to avoid the risk of water accumulation and pooling of water on the surface of the fabric. Pooling of water on the surface increases the weight of the solar shade and can cause ripping of the fabric, breakage of mechanical components, detachment of the solar shade from the mounting surface, or injuries to bystanders or users (risk of falling objects).
- * Do not roll out the solar shade while it is snowing or in freezing weather (risk of damage to the solar shade).
- * Do not roll up the solar shade when foreign objects are present on the fabric or in the solar shade box. First remove the foreign objects. Otherwise there is a risk of damage to the solar shade (risk of falling objects).
- * Do not roll out the solar shade while people or obstacles are present in the path of the solar shade. That can lead to personal injuries.
- * Do not hang foreign objects (such as flower pots, etc.) at the front profile or folding arms. That can lead to damage to the solar shade and a risk of falling objects.
- * Do not hang at the crank rod.

5. SAFETY DEVICES

- * Automatic controller: wind protection.
- * Automatic controller: wind & sun automatic controller.
 - Read the relevant operating manual thoroughly.
 - Note: The user must always be aware of the status of the solar shade when it is open. An automatic controller can fail under unusual conditions, such as power outages, defects, sudden thunderstorms, etc. That can lead to damage to the solar shade and a risk of falling objects.
 - If you intend to be absent, switch the automatic controller to manual operation and roll up the solar shade before leaving.
- * Motor with emergency manual operation: a motorised solar shade cannot be rolled up if there is a power outage. In regions with high wind levels and regular power outages, you should consider using a motor with emergency manual operation or providing a motor-generator set for emergency electrical power.

6. REPAIRS, MAINTENANCE AND MALFUNCTIONS

To ensure optimum use of your solar shade, it is recommended to have it inspected and maintained regularly (at least once per year). For your own safety, we recommend taking out a maintenance contract with a qualified solar shading firm – preferably your installer.

The solar shade needs to be checked regularly for signs of wear and damage to the fabric or framework. Solar shading systems in need of repair must not be operated or used.

Contact your maintenance firm in case of malfunctions. All warranty claims are rendered null and void if annual maintenance is not carried out by a qualified firm using original parts.



* MAINTENANCE AND REPAIR OF THE SOLAR SHADE, IN PARTICULAR THE FOLDING ARMS, MOTORS AND SAFETY DEVICES, MAY ONLY BE PERFORMED BY COMPETENT PERSONNEL. MOTORS CAN BE SWITCHED ON OR STARTED UNINTENTIONALLY WITHOUT NOTICE. CONSEQUENTLY, THE MOTORS MUST BE DISCONNECTED FROM THE MAINS (SUCH AS BY SWITCHING OFF THE CIRCUIT BREAKER) WHILE BUILDING CLEANING OR MAINTENANCE WORK IS BEING PERFORMED.

* OUR PRODUCTS MUST BE INSTALLED SO THAT ALL PARTS REMAIN ACCESSIBLE AT ALL TIMES FOR MAINTENANCE AND EVENTUAL REPAIRS. IF THIS IS NOT THE CASE, HAROL CANNOT BE HELD RESPONSIBLE FOR ANY ADDITIONAL COSTS (F.E. DEMOLITION ACTIVITIES, REPAIRS TO FACADES AND INTERIOR WALLS) AS A RESULT OF THIS.

You can optionally perform the following minor maintenance tasks and inspections on your own:

- **Maintenance of the mechanism :**

- Lubricate the hinge pins of the folding arms and the bearings at the opposite ends of the operating mechanism with a Teflon-based dry lubricant. (at least once annually)

Note: avoid fouling the fabrics.

- **Maintenance of the profile sections :**

- Clean the profile sections regularly using lukewarm water and a neutral soap, such as a car shampoo. Rise afterwards with tap water. (at least twice annually)
- Never use corrosive or aggressive products. We strongly advise against using scouring sponges or other abrasive materials.

- **Maintenance of the fabric :**

- The solar shade fabric has been treated with a special dirt-shedding product that resists soiling.
- Dust can best be removed from a dry sun solar shade fabric by vacuuming, blowing, beating or brushing.
- Watery spots should be dampened thoroughly and rubbed out using a clean cloth. Detergents, such as soap or other chemical products, should only be used in highly exceptional cases.
- Fingerprints and grease spots are best removed using a clean cloth with a drop of gentle dishwashing liquid (never use trichloroethane III).

Also bear the following points in mind:

- Keep the solar shade closed in case of heavy rain, strong wind, frost or snow.
- If the fabric is continually exposed to all weather conditions, there is a high likelihood that deposits of atmospheric pollution will form on the fabric. Such deposits can degrade the quality of the fabric.
- The fabric can be rolled up for a short time while damp. However, it must be dried in the extended position afterwards. If the fabric remains rolled up for an extended length of time, the material may mildew or rot.



DISMOUNTING AND REMOVAL OF THIS SOLAR SHADING SYSTEM MUST BE CARRIED OUT BY QUALIFIED INSTALLERS. DISMOUNTING OF COMPONENTS CAN BE DANGEROUS BECAUSE THE CABLES AND FOLDING ARMS ARE UNDER HIGH MECHANICAL TENSION. SECURE THESE HAZARDOUS COMPONENTS BEFORE DISMOUNTING THEM.

ENSURE THAT THE DISMOUNTED SOLAR SHADING SYSTEM IS REMOVED IN ACCORDANCE WITH LOCAL ENVIRONMENTAL REGULATIONS. IF NECESSARY, CONSULT YOUR LOCAL ENVIRONMENTAL AUTHORITY.



CONTACT YOUR SUPPLIER WITH REGARD TO ANY QUESTIONS OR MATTERS THAT ARE NOT EXPLAINED OR NOT SUFFICIENTLY EXPLAINED IN THIS GUIDE.

A SOLAR SHADING SYSTEM IS A LARGE, HEAVY MOVING OBJECT, AND IT CAN CREATE A HAZARD OR CAUSE INJURIES IF OPERATED IMPROPERLY OR USED INCORRECTLY.

SERVICE-LOG BOOK

This proof book contains technical references and records of installation, maintenance, repairs and alterations carried out and must be made available for any inspections by authorised bodies.

Customer: _____ (name, address and reference person)

Description of the solar protection: _____ (model, type)

Identification number: _____ (clear reference of the solar protection)

Location: _____ (address)

Fabric: _____ (collection, quality)

Power supply: _____ (voltage and input)

Type of operation: _____ (hold-to-run, impulse, automatic)

Installer: _____ (name, address, telephone number)

Date of installation: _____ (day, month, year)

List of components installed (drive unit, control and safety devices)

The technical features and performances of the components listed below are documented in the relevant installation manuals and/or on the label on the component itself.

Operation: _____ (type, serial number)

Motor: _____ (type, serial number)

Relay box: _____ (type, serial number)

Wind-sun automatic: _____ (type, serial number)

Switch: _____ (type, serial number)

Remote control: _____ (type, serial number)

Other domotics: _____ (type, serial number)

Miscellany: _____ (type, serial number)

Warning of residual risks and of foreseeable improper use

Inform with signs attached to the risk points of the product and/or with written instructions to be given and explained to the user of the solar protection, or whoever is responsible, about the existing risks and the foreseeable improper use.

Date	Description of work (Installation, start-up, adjustments, check on safety devices, repairs, alterations, ...)	Installer's signature	Customer's signature

CE-Conformity declaration *Relevant EC Directives pertaining to machines 2006/42/EC*

We, **Harol NV**, declare fully on our own responsibility that the products

Foldaway awnings, type TC110, TC120, TC130, PR210, PR220, PR230, LX530, CA430, BX260, BX270, Tucan, Cadiz, Praia, Lux

related to this declaration, are conform to the following agreed standard or other normative document(s).

EN 13561

This declaration is only valid if the installer has executed the installation fully conform the conditions of the manufacturer and conform the agreed standards pertaining to the installation.

Seen and approved,
the installer,

Stamp:

Date of installation:

the manufacturer,

Harol NV

represented by



Mr Jan De Lobel
quality manager

Installer : _____

Address : _____

Tel. : _____

Order no : _____

Client : _____

Address : _____

Tel. : _____

Date : _____

FORM OF TRANSFER Confirmation of transfer

The solar protection has been mounted without visible defects, and according to the agreements made with the seller and/or the installer*.

◇ Yes

◇ No

If not, what are the remarks : _____

** If the client is content with the formal control and bring the solar protection into use, he/she is supposed to have accepted it.*

The client has been familiarized with the operation of the product, according to the prescriptions by means of the manual for the consumer.

◇ Yes

◇ No

The solar protection may be used in following weather conditions:

Wind (*):

☐	until a wind resistance class of 2 = wind-force 5 Bft. = 35 km/h max. permitted
☐	until a wind resistance class of 1 = wind-force 4 Bft. = 27 km/h max. permitted
☐	until a wind resistance class of 0 = wind-force ≤ 3 Bft. = ≤ 20 km/h max. permitted

** Indicate the allowable wind resistance class in function of the location, mounting and mounting-surface.*

Rain : ◇ not permitted ◇ permitted under the supervision of the user ◇ permitted

Danger of frost : ◇ not permitted

The following documents are transferred to the user :

Manual for the consumer : ◇ Yes ◇ No

Assembly instructions : ◇ Yes ◇ No

Manual of the manufacturer of motors, switches and electronical control : ◇ Yes ◇ No

Others : _____

Assembly made by :			
Name :	From time :	Till time :	Number of hours

Signature installer

Signature client

Installer : _____ Order no : _____
 Address : _____ Client : _____
 _____ Address : _____
 Tel. : _____ Tel. : _____
 Date : _____

FORM OF TRANSFER Confirmation of transfer

The solar protection has been mounted without visible defects, and according to the agreements made with the seller and/or the installer*.

◇ Yes ◇ No

If not, what are the remarks : _____

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The client has been familiarized with the operation of the product, according to the prescriptions by means of the manual for the consumer.

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Assembly made by :			
Name :	From time :	Till time :	Number of hours



Signature installer

Signature client

YOUR PARTNER FOR SOLAR PROTECTIONS , SERVICE AND MAINTENANCE: