

INSTALLATION MANUAL. USE AND MAINTENANCE

**INTENDA**

**KRISTALLROLL**

INTENDA S.r.l.  
Via V. Pareto, 3  
37045 S. Pietro di Legnago (VR)  
Tel +39 0442 601031 – 600270  
Fax +39 0442 25164

<http://www.intenda.it> - e-mail: [info@intenda.it](mailto:info@intenda.it)

# TABLE OF CONTENTS

<b>1. GENERAL INFORMATION</b>	
1.1 Introduction.....	3
1.2 General precautions regarding the use of the product .....	4
1.3 Structure of the manual .....	4
1.4 Product identification .....	5
1.5 Warranty.....	6
<b>2. PRODUCT DESCRIPTION AND TECHNICAL SHEET .....</b>	<b>7</b>
2.1 Components.....	7
2.2 Fabrics's characteristics .....	9
<b>3. INSTALLATION.....</b>	<b>10</b>
3.1. Handling and transport .....	10
3.2. Place and requirements for the installation .....	10
3.3. Installation .....	10
3.4. Package opening .....	10
3.5. List of the material contained in the package .....	11
3.6 Curtain assembly .....	11
<b>4. GENERAL SAFETY PRINCIPLES.....</b>	<b>16</b>
<b>5. KRISTALLROLL USAGE.....</b>	<b>17</b>
<b>6. CHECKS AND MANTAINANCE.....</b>	<b>18</b>
6.1. Ordinary Maintenance .....	19
<b>7. DISASSEMBLY.....</b>	<b>19</b>

# 1. GENERAL INFORMATION

## 1.1 Introduction

This manual is an integral part of the product; it is addressed to the installer and to the final user of the awning and enables a correct installation and use. For this reason it must be held with the awning until proper disposal.

In this manual you will find the instructions to:

- correctly install the awning
- understand the functions of the awning and of every part of the whole thereof
- correctly do the awning scheduled maintenance processes
- take care of the basic safety rules



**ATTENTION:** the installer and the final user must read the whole manual, and store it together with the awning.

Before using the awning, please read carefully the technical information contained in this manual and follow them strictly.

Keep this manual in a safe and accessible place.

The manual must be kept with care, disseminated and made available to all interested persons. In harmony with the overall design of the structure, the manual was created in full compliance with the directives of the European Community.

This manual contains the main information indicated in the index, it is an integral part of the awning and must be kept with care until the final dismantling of the structure itself in order to allow reference for future updates. In the event of damage that makes the copy of the manual in its possession unusable, the user can request a copy from Intenda S.r.l., specifying the type of structure, the serial number or order shown on the nameplate of the structure itself.

No responsibility is assumed for translations into other languages which do not conform to the original meaning.

This manual reflects the state of the product at the time of supply and cannot be considered inadequate only because it is subsequently updated on the basis of new studies or experiences. You will receive, in the future, revisions or updates to integrate and consider. Intenda S.r.l. reserves the right to update production and manuals without the obligation to update the production and previous manuals and without the obligation to inform users of the equipment previously supplied. The notification of proposals for updating the manual and / or the machines are in any case to be considered a courtesy. The customer assistance service is however available to provide, upon request, information on the updates that Intenda S.r.l. made to the products.

This manual has been created in order to provide the user with a general knowledge of the product and the maintenance instructions deemed necessary for its proper functioning. Before proceeding with functional operations, maintenance and repairs, carefully read the Manual. It contains all the information necessary for the correct use of the product and to avoid accidents. The control and maintenance frequencies prescribed by the manual are always intended as the minimum necessary to ensure the efficiency, safety and durability of the product in normal working conditions. The surveillance must in any case be constant and prompt action must be taken in the event of anomalies.

**WARNING:** Any modification or tampering, not authorized by the manufacturer, to the product and to the safety or structural systems, cancels any responsibility of the manufacturer with regard to CE conformity.

## **1.2 General precautions regarding the use of the product**

These indications are part of the normal behavior that workers must have towards the product and therefore in the design and construction of the product, the manufacturer considered them known to the tenant. It is the user's task to inform (by delivering this manual) and train the employees (users and maintenance technicians) so that these indications are brought to the attention of the staff who will work with the structure.

- Always use anti-cut gloves when closing or opening the structure, during adjustments or maintenance (described in the following chapters). When finished, wash your hands with soap and water.
- Immediately clean any accidental contacts of corrosive products that come into contact with the structure to avoid rapid deterioration.
- Do not allow unauthorized personnel to work with the equipment.
- Before using the equipment, make sure that any dangerous to safety conditions have been properly eliminated.
- Make sure that all the guards and other protections as well as the structural fixings are in place and that all the safety devices are present and efficient.
- Make sure that there are no foreign objects in the sliding area of the structure.
- Individual protection devices must be used such as:
  - o Safety clothing
  - o Safety shoes
  - o Cut resistant gloves

The protection systems must be used in the following phases:

- Structure maintenance operations (cleaning, checking or adjustment)
- Operating operations (closing and opening)

## **1.3 Structure of the manual**

This manual consists of eight parts which contain:

- 1. GENERAL RULES AND WARNINGS, useful premises for using and understanding the manual;
- 2. GENERAL INFORMATION, useful premises for identifying the awning;
- 3. TECHNICAL DATA, information on the characteristics of the awning;
- 4. OPERATING INSTRUCTIONS, interface for the safe use of the awning;
- 5. MAINTENANCE, advices and recommendations;
- 6. DEMOLITION AND DISMANTLING OF THE STRUCTURE, instructions and recommendations;
- 7. COMPONENTS, detailed list of the parts that make up the awning.

The user manual makes use of the following typographical conventions:

**Symbol**

**Indicates**

**Note**



Notes contain important information highlighted outside the text. Pay close attention.

**WARNING**



Warning messages contain procedures, indicated in the manual, that failure to observe can result in equipment damage.

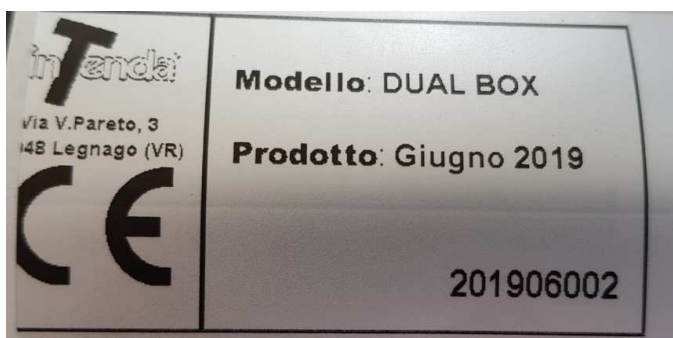
**ATTENTION**



The ATTENTION messages indicate the particular procedures whose failure to comply can damage the operator.

**1.4 Product identification**

The physical identification record is the silk-screened and stamped plate which contains the details to be cited, in case of need, to the company Intenda S.r.l. This plate is the only one recognized by the manufacturer as a means of product identification. For no reason the data shown on the product can be altered. A reproduction of the plate is shown in the following drawing.



## **1.5 Warranty**

Intenda's products are guaranteed as by law, with effect from the date stated on the invoice.

During this period INTENDA S.r.l. will remove in an appropriate time all vices and defects of the materials and/or of the building process, only if the awning:

- has been installed by qualified workers
- has been used correctly, following the conduct and maintenance indications contained in this manual
- has not been subjected to natural disasters

To remove the defects found out during the warranty time:

- the costs of working time and transport are at the expense of the dealer
- the costs of spare parts are at the expense of INTENDA S.r.l.

Warranty is meant to be ex works Legnago (VR). All the tools and optional parts eventually supplied by the dealer are not subject to the warranty.

In the awning building process INTENDA S.r.l. uses materials and mechanisms of suitable type, state and quality, at its own discretion; even after the receipt of the order, INTENDA S.r.l. can make substantial changes or appropriate improvements at its own discretion.

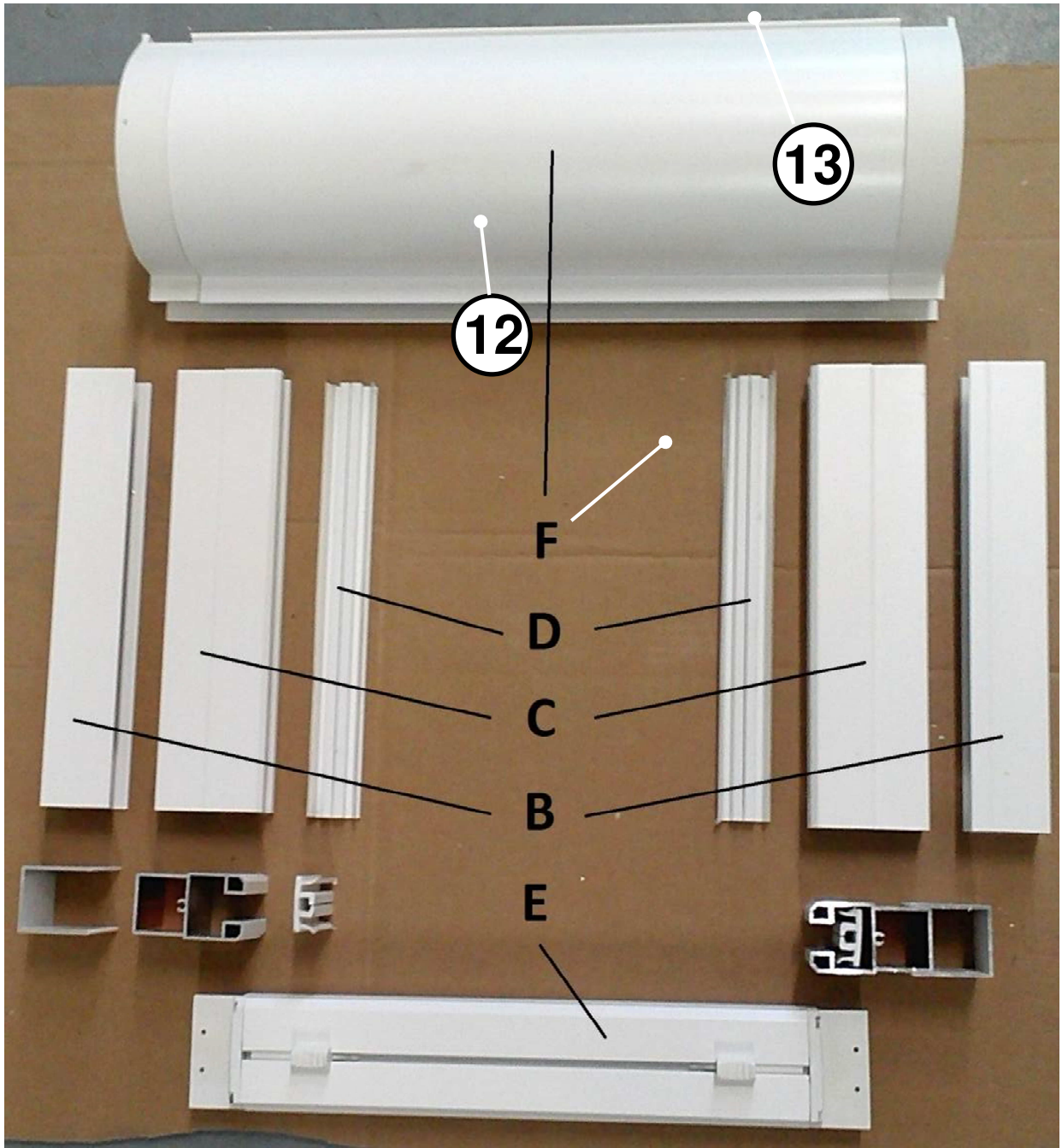
Slight colour differences, folds or "partridge's eyes" in the PVC clothes should not be considered defects, but features of the article.

## 2. PRODUCT DESCRIPTION AND TECHNICAL SHEET

### 2.1 Components

<u>N.</u>	<u>MATERIALS</u>
A	BRACKETS
B	RAILS (external part)
C	RAILS (internal part)
D	PVC RAILS
E	BOTTOM RAIL
F	CASSETTE







## **2.2 Fabric's characteristics**

### **CRISTALPLUS 500**

<b>Composition</b>	PVC
<b>Fabric's weight</b>	Ca 610 gr/m <sup>2</sup>
<b>Thickness</b>	0,50 mm
<b>Breaking strength</b> (ASTM D-882, DIN 53354)	L: 220 kg/cm <sup>2</sup> H: 210 kg/cm <sup>2</sup>
<b>Tear strength</b> (ASTM D-1004, DIN 53363)	6 kg/mm <sup>2</sup>
<b>Characteristics</b>	Treated against UV rays tested for 1000 hours
<b>Temperature resistance</b>	+65° C /-10° C

## 3. INSTALLATION

### 3.1 Handling and transport

The awning installation should only be done by qualified staff.  
The products must be unloaded through appropriate lifting equipment, which must be used only by authorized staff.

If the unloading operation is made by hand, it is important to consider that the weight limit that each male person can handle is 25 Kg; moreover, the operators should be equipped with safety gloves and safety shoes.



**ATTENTION:** *Intenda S.r.l. recommends a preventive investigation by a competent technician, for a detailed analysis of the urban planning regulations in force in the installation area of the box. The manufacturer assumes no responsibility for installations in areas (floors) not suitable for supporting the static and dynamic loads of the structure or in areas where the stresses deriving from atmospheric phenomena can cause permanent damage to the structure. The manufacturer assumes no responsibility for installations in areas regulated by specific urban planning regulations.*

### 3.2 Place and requirements for the installation

Before the arrival of the installers the user must arrange:

- any permits required by local regulations
- appropriate ground

### 3.3 Installation

Before starting the installation, if electrical equipment utilization is needed:

- make sure you do not work in wet areas
- use only intact extension cords, according to the place of use
- use shoes with rubber soles



**ATTENTION:** It is necessary for the operators to use appropriate personal protective equipment such as safety shoes and gloves, in order to avoid injuries provoked by the fall of the packaging or of components that it contains

### 3.4 Package opening

Packaging must be opened only with scissors with rounded tips, using the best care not to damage the article

**NOTE:** The packaging material disposal is at user's charge, who will perform it in accordance with existing environmental norms.

### **3.5 List of the materials contained in the package**

- 1 package containing the preassembled awning
- 1 package containing rails and the eventual lever
- 1 package containing fixing brackets and screws

After having opened the package, check whether each piece is there and if they are intact. If some pieces are damaged or missed, it is forbidden to proceed with the curtain installation. Please inform the curtain producer.

### **3.6 Curtain assembly**

1. Fix the fixing brackets of the cassette (A) to the ceiling using a proper wall dowel. According to the width of the curtain you use two or more brackets that are always perfectly aligned with each other. The distance between the start of the tent and the start of the first bracket must be at a maximum of 15 cm (PICTURE 1). In the case of more than two brackets, divide the remaining brackets into equal parts.
2. Loosen the grain on the bracket using a wrench (A)

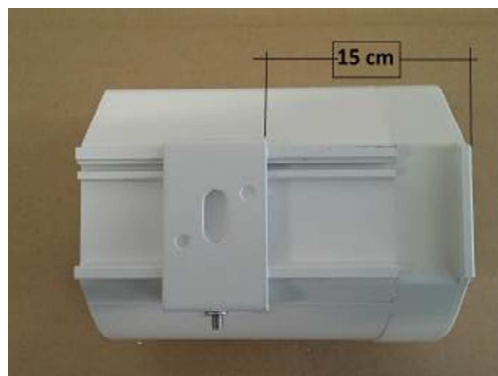


PHOTO 1

3. Push up the cassette up to enter the outer groove of the cassette on the bracket and rotate the cassette until it is flush with the bracket (PHOTO 2)



PHOTO 2

4. Tighten the screw until the contact with the cassette (PHOTO 3)



PHOTO 3

5. Drill rails (B) and secure them to the wall with appropriate wall dowels (PHOTO 4/4.1)



PHOTO 4

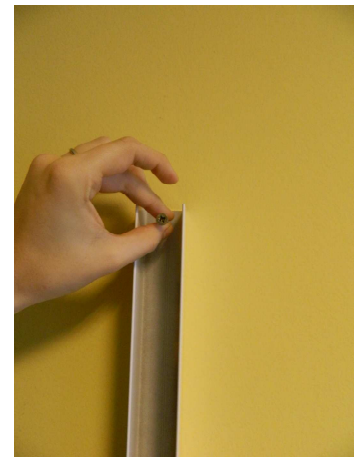


PHOTO 4.1

6. Insert the zip into the PVC rail (D) placed in the rail (C) (PHOTO 5 ). Keep the rail (C) tilted and let it turn until you can insert it into the rail (B) ( PHOTO 6 )



PHOTO 5



PHOTO 6

7. Insert the lever and block it with the proper clip ( PHOTO 7). Let the tarpaulin come down and check whether the zip is inside the PVC rail ( D ). If not, repeat this procedure.



PHOTO 7

8. Bring in / out the telescopic guide (C) to obtain a distance of 13 mm from the end cap to the rail and secure it with the proper screws (PHOTOS 8 and 9)

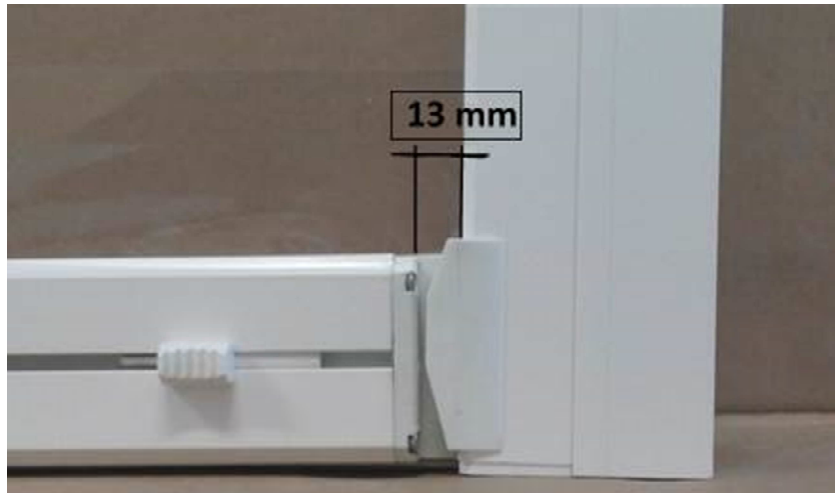


PHOTO 8



PHOTO 9

9. Fix the end caps ( PHOTO 11 ) right and left at the guides (C) using the proper screws 3,5 x 19 ( PHOTO 9 )



PHOTO 10

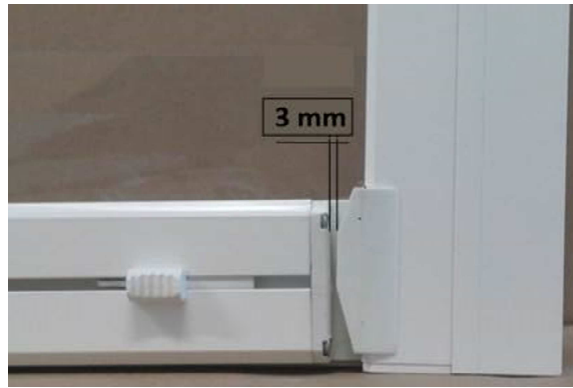


PHOTO 11

10. Check that the 2 end caps are flush (PHOTO 12 e 13 )



PHOTO 12



PHOTO 13

## VERSION WITH MOTOR

1 the temporary electrical connection, has not to be done by means of luck but with the special equipment available by the manufacturers of engines  
2 for installation and adjustment of the limit switch follow the instructions provided by the manufacturers of the engines attached to this manual.  
3 final connection must be made by qualified personnel, which will issue the certificate of conformity to the regulations in force



**ATTENTION:** other installation ways which are not contained in this manual are not allowed, if not previously authorized by INTENDA S.r.l.

## 4. GENERAL SAFETY PRINCIPLES



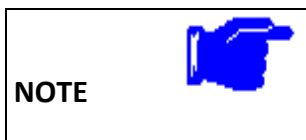
It is recommended to follow the safety requirements indicated on the structure and into the installation manual. Do not remove or modify the safety devices. The utilization of the product should be in accordance with the producer indications.



The safety indications do not refer only to new products, but also to already used products.



It is strictly recommended to follow the safety principles described in this installation manual, in order to prevent faults in the functioning of the product.



It is strictly recommended to follow the maintenance and inspection programs as described in this manual.

It is useful to explain the correct meaning of some terms used in this manual:

**“Dangerous areas”:** any part of the product which can damage a person during handling of the structure.

**“Exposed person”:** any person who stands entirely or partially near a dangerous area of the product.



“**Operator**”: the person in charge of the handle and maintenance of the product.

The product should be only used by trained staff. These people should know the features of the product, and should be informed about the indications contained in this manual.

## 5. KRISTALLROLL USAGE

Before using the product, it is necessary to check that the installation has been done properly.



**ATTENTION:** check that the structure is not damaged or deformed, and that no one of the component is broken.

### *a. Not allowed uses*

The product should be used for the purposes declared by the constructor.

In particular, the awning must not be used:

- without PVC
- with missing/broken safety and fixing devices
- in explosive atmosphere, or in place with potential fire hazard
- in adverse weather conditions; in these situations (strong wind, rain, snow), it is necessary to roll up the awning
- in dangerous conditions, if the structure appears damaged or not functioning
- for improper uses and/or by unskilled people
- for purposes which are contrary to the norms
- in case of severe maintenance deficiencies
- in case of unauthorized modifications of the product
- with total or partial non-compliance with the instructions

Every modification of the product which changes the functionalities of the product and subsequently modify the risks, have not been authorized by the constructor.

These kinds of changes, if not authorized by the constructor, will cause the decay of the warranty and will invalid the declaration of conformity of the product.

### *b. Residual risks*

According to its own knowledge of the product, the constructor declares that the following dangers may occur:

- Unusual vibrations of the structure
- Cutting, shearing, hitting of the operator by the mobile components during the handling of the product

- Slipping or tripping of the operator during the installation process
- Breaking of the restraining elements during unfavorable wind; in this case, there is the risk for every exposed person to get hit by the structure
- Structural loss of stability, if the prescription previously indicated will not be respected

## 6. CHECKS AND MAINTENANCE

It is necessary to periodically check the general state of the structure, of the connections between the various components, of the frame and the PVC tarpaulin.

In case of use during extreme temperatures (heat or cold) small squeaks or noises are normal.

The PVC tarpaulin surface can be washed using a damp cloth. After the cleaning, the PVC shall be well dried before rolling up the awning, in order to avoid the creation of moulds.

The checks and maintenance frequency indicated below is to be considered as the minimum interval to grant efficiency, security and durability of the product of the product in normal use situations.

A constant supervision is recommended, in order to act promptly in case of anomalies.

Ordinary maintenance, checks and lubrication operations must be done after the frame has been uninstalled.

**ATTENTION:** Every modification or manomission which has not been previously authorized by the constructor, will cause the dacay of every responsibility of the constructor on the product conformity.

The constructor suggests to constantly control the product, making the scheduled checks, and prompt act in case of anomalies, unusual damages or breaks.

## 6.1. ORDINARY MAINTENANCE



### CAUTION

The maintenance deadlines indicated here below are to be considered indicative, and refers to normal usage conditions. The product conditions can vary in relation to the type of usage, the usage frequency and to the environmental features (presence of dust,..). In case of heavy duty conditions, the maintenance checks should be increased.

Scrupulously perform the following operations:

#### EVERY DAY:

Before the use, visually inspect the Kristallroll, paying particular attention to eventual breakages

Check the PVC tarpaulin integrity

#### EVERY 6 MONTHS:

Check the general condition of the structure; if necessary, substitute the usured or damaged components. Always use original spare parts.

Check all the screws

Check the fixing systems.

#### EVERY 24 MONTHS:

General inspection of the awning, with report of the most stressed components.

## 7. DISASSEMBLY

Disassembling operations are done backward to the assembly.

The eventual disposal of the product must be made in accordance with the existing environmental norms.

### **ATTENTION**

Respect laws about use and disposal of the cleaning and handling products in force in the country where the structure is used. Respect also the manufacturer's provisions.