RAISED DOCK SHELTER

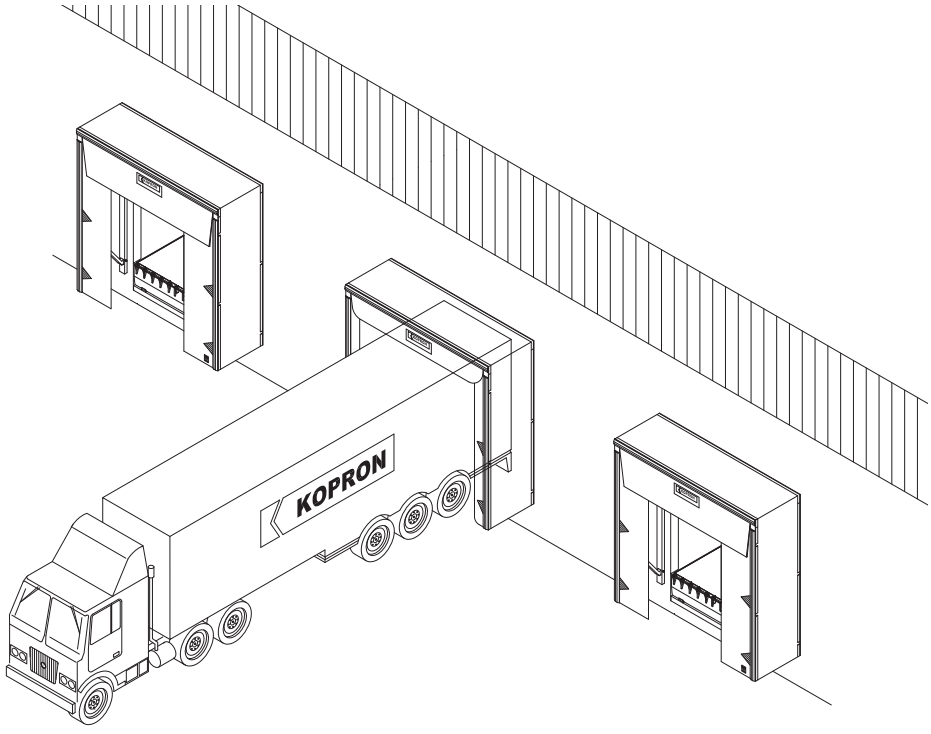
LOGISTIC SOLUTIONS

KOPRON®

MOD. KDR-S 2.0

ASSEMBLY, USE AND MAINTENANCE MANUAL

GENERAL INDEX



SUMMARY

All drawings and technical characteristics may be subject to changes at any time, should this occur we shall provide to update the manual as soon as possible.

Kopron S.p.A.

INTRODUCTION

This manual is a guide for installers, users and maintenance personnel as well as being useful for preventing accidents during life cycle of the equipment from installation to dismantling.
In case of instructions are not clear or should particular problems arise and are not mentioned herein, please apply to our service department. Do not take personal initiatives for interventions if instructions are not fully understood.
Buyer and personnel involved in installation should read this manual before using the equipment. We would suggest to keep a copy of this manual handy in a place where it can be easily consulted.
Assembly and installation must be carried out by qualified personnel adequately equipped to operate in absolute safety condition. A dedicated chapter on risks will face the matter in detail.
Preventive maintenance for solving anomalies must be programmed according to regulations which require only specialized personnel to carry out interventions.

To have another copy of the manual you may contact our service department at the following address:

KOPRON S.p.A.
via Primo Maggio s.n.
20064 Gorgonzola – MILAN - ITALY
☏ +39 02 – 921 52 1

KOPRON S.p.A. have the right to update or improve the manual without affecting the validity of this version.

Some important points have been highlighted by using symbols explained on next page.

SYMBOLS

DANGER - NOTICE

This sign indicates serious danger which must not be under estimated in order not to risk people's health and safety.

CAUTION

This sign indicates the requiement to be careful on how to move and act in order not to risk people's health and safety and cause economical damages.

IMPORTANT

This sign indicates technical information and important regulations to pay attention to.

ECOLOGY

Remarks regarding ecology

PROHIBITION

If instructions contained in this manual are not strictly followed and original spare parts are not used, or in case ordinary maintenance or non authorized interventionsare carried out Buyer will take his own responsabilities and guarantee will no longer be valid.

Kopron S.p.A.

CHAPTER 1
DESCRIPTION

1.1 DESCRIPTION RAISED DOCK SHELTER

Raised dock shelters are particularly suitable for limiting temperature variation between
inside and outside of the building during loading/unloading operations.
Their use allows energy saving when either heating or airconditioning is functioning inside the building. This model in particular can meet general requirements and besides being of high quality it is also ecomomical.
The strucure is in galvanized steel.
Covering sheets are made of polyester/PVCand front flaps, exposed to rubbing and scratching of the truck, are in thick PVC special weft.
Dock shelters prevent the building structure to receive the thrust from the truck impact.
Covering sheets is in tear resistant, Class 2 self-extinguishing fabric.

1.2 IMPROPER USE

The raised dock shelters have been specifically designed with the aim to create a division between the outside of a building and the inside, by adhering to the truck during loading/unloading operations. They cannot have a different application.
In case Buyers need to use them differently they must inform Kopron S.p.A. who in case of authorization will suggest how to handle the product in the best way.

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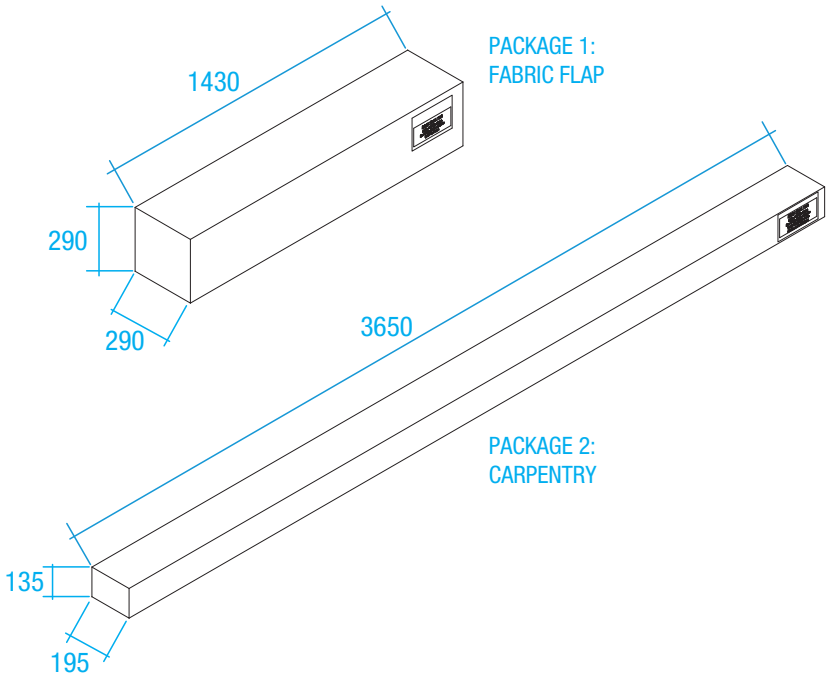
CHAPTER 2
IDENTIFICATION AND CONTROL OF THE MATERIAL

1.1 PREAMBLE

Each shipment of dock shelters is made of two or more packages, in case of multiple orders.
Each kit can reach max 125 kgs.
Material contained in the packages is wrapped in carton boxes.
All packages have a label carrying the order number.

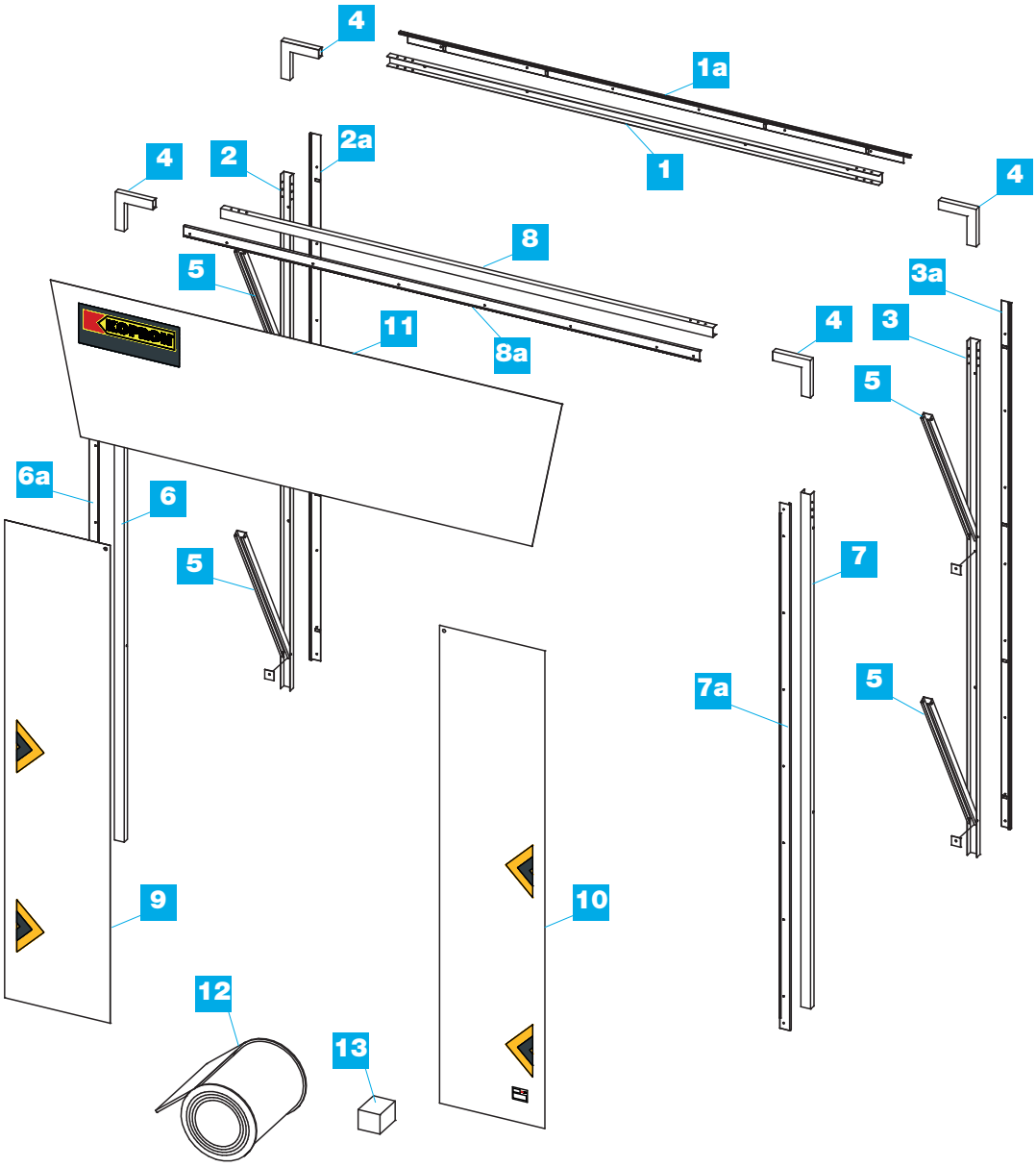
To verify the completeness of the supply we suggest to check all the packages. If packages are to be stored, the warehouse must be sheltered and dry. Packages must not be placed one on top of the other in order to avoid damages. Take care not to damage the PVC fabric when opening packaging.



1.2 IDENTIFICATION AND CONTROL OF THE MATERIAL

Transport documents accompanying the delivery of the dock shelter also include a packing list detailing the number of bolts, drilling screws necessary for assembly. Upon receipt the material must go through inspection with the aid of the packing list to verify completeness. In case of damages or missing items, written claim must be made within seven days from delivery and sent through registered mail to Kopron S.p.A. See drawing enclosed to better identify the details listed in the packing list.

LIST OF COMPONENTS

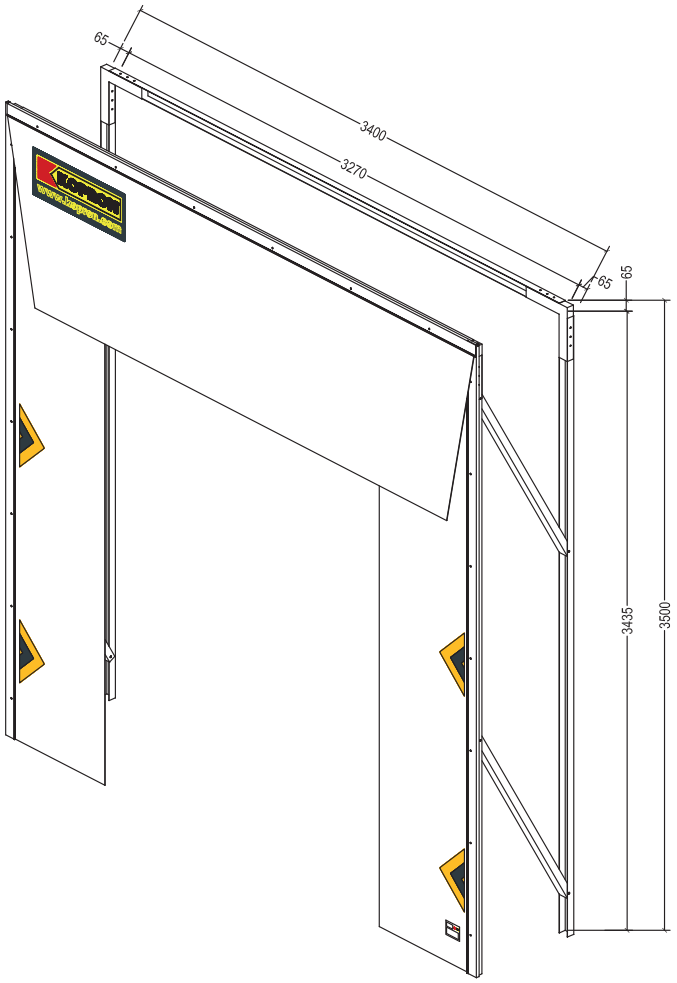


- **1** Wall Side Flap (Ref. A)
- **1a** Fabric Blocking Profile Rear Bar
- **2** Left Wall Side Support (Ref. A)
- **2a** Rear Left Fabric Blocking Profile Support
- **3** Right Wall Side Support (Ref. A)
- **3a** Rear Right Fabric Blocking Profile Support
- **4** Bar/Support Corner Element
- **5** Arms
- **6** Front Left Side Support (Ref. B)
- **6a** Left Front Fabric Blocking Profile Support
- **7** Front Right Side Support (Ref. B)
- **7a** Right Front Fabric Blocking Profile Support
- **8** Front Side Bar (Ref. B)
- **8a** Front Bar Fabric Blocking Profile
- **9** Left Flap
- **10** Right Flap
- **11** Upper Flap
- **12** Cover Sheet
- **13** Accessory Box Containing:
  - **a** 8 bolts M8 x80 (fixing of arms)
  - **b** 4 self-perforating screws 6,3x25 (fixing of corners + front profiles)
  - **c** 16 screws 4,2x19 (fixing of limpets)
  - **d** 4 reinforcement plates 60x60

CHAPTER 1
VERIFICATION OF THE MANSONDRY WORK

1.1 VERIFICATION OF THE MASONRY WORK

Before starting assembly you must check if the size of the door space is compatible with the dock shelter.
Make sure that the external width and height of framework doesn't prevent the fitting of the door. Length and height of the dock are indicated in the drawing.
Make sure that bolts do not interfere with the electric cables, gas tubes, water pipelines.
Eventually you may use specific devices for detecting hidden cables.
Contact with a electric lines can cause fire or electric shocks.
Damaged gas tubes create high risk of explosion. Perforated water pipelines can cause either damages to the material and/or electric shocks.



Verify with a technician of the Buyer that the carrying structure is suitable to bear the weight of the dock shelter and the stress caused during work.
This verification must be carried out by a specialist. For any further problem you may apply to the Service Dpt in Kopron S.p.A. referring to the data contained in the transport documents: ☏ +39 02 – 92 152 910.

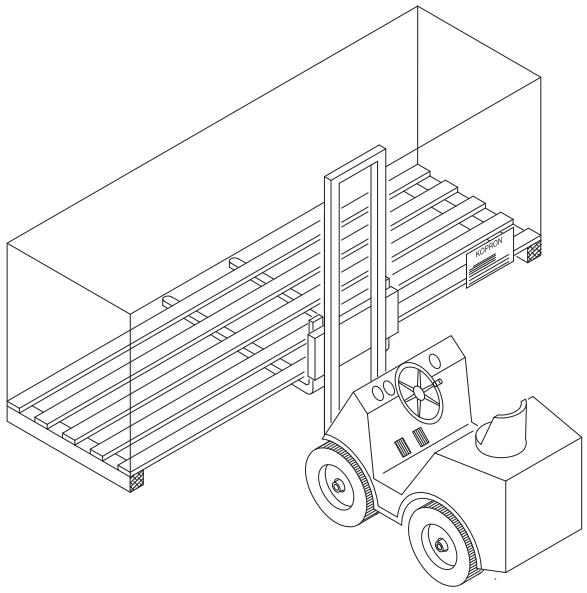
CHAPTER 1
INSTRUCTION REGARDING TRANSPORT

1.1 GENERAL INDICATIONS

The handling of the material, must be assigned to personnel trained to operate forklifts or other machinery used for lifting material
Safety measures must be undertaken to guarantee the stability of the machine and of the material.
Should the forklift operator be unable to control the way during handling of goods another person he must go before him and help.
Necessary conditions for lifting material is the perfect balancing of the goods.
The machinery used must be suitable to the volumes and weights to handle. During operations you must keep an adequate speed and avoid swinging of the material
Do not leave for any reason the forklift with the material in lifted position. In case of interruption of manoeuvres always lower the goods..

1.2 HANDLING INSTRUCTIONS

Each shipment of dock shelters is made of two or more packages in case of multiple orders. Each package can reach max 125 kgs.
Material contained in the packages is wrapped in cardboard boxes .
The transport and handling of material must be by means of a forklift. Forks must work as shown in the drawing.
No cranes must be used, bridle slings around the package would cause damages inside.



Packages must not be placed one on top of the other in order to avoid damages.
If packages are to be stored, the warehouse must be sheltered and dry.
When opening packaging take care not to damage the material when cutting the plastic wrappings.

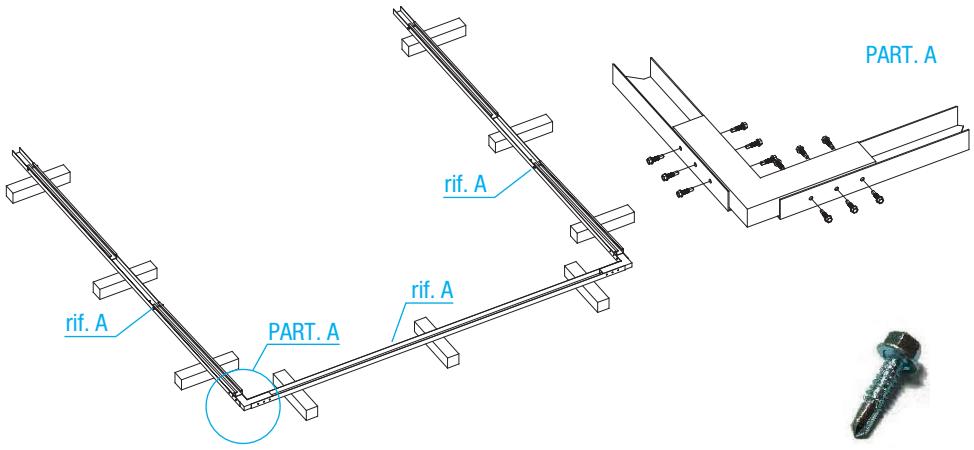
CHAPTER 2
INSTALLATION ASSEMBLY

2.1 BEFORE STARTING

Along with the delivery of material you may have, upon request, an envelope with drawings and technical data regarding the supply, which in addition to the instructions contained in this manual are an aid for an easy, correct and safe assembly of the dock shelters.
The envelope can also contain information regarding the positioning of the dock shelter and other details on the technical/commercial agreement between Buyer and Kopron S.p.A.
Therefore, do not start assembly before having read the contents of the envelope.
In case of doubts please apply to the Service Dpt in Kopron S.p.A. at the following numbers, referring to the order number visible on the packages:
Kopron S.p.A. ☎ +39 02 – 92152 910 - 🖷 +39 02 92152 926.
Assembly must be carried out according to local regulations in force and by specializedand skilled personnel.
Specialized personnel, in charge of the assembly, must be informed in advance about the work to be done, the risks they may face in order to provide necessary tools and take the measures for safety.
Assembly must not be carried out in strong windy days. A scaffold must be positioned near the wall where the dock shelter is going to be assembled. Before beginning work mark off the working area by means of a white/red ribbon usually used in building yards.

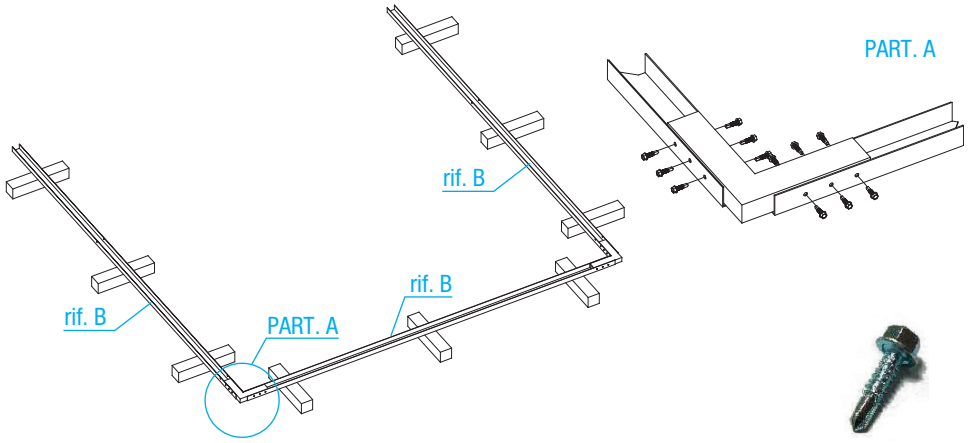
2.2 ASSEMBLY OF THE DOCK SHELTER

Lay on the floor the wooden bars and start assembling the rear arch by inserting the two jambs in the cross join them using a corner bracket for joining of the bar/support (see ref. 4 page 9).
Fix the corner brackets to the supports and bar using 24 self-perforating screws 6.3x25".
Fasten the screws making sure the jambs are parallel.
The parallel positon of the jambs can be checked by measuring the diagonals which must be equal.



fixing using self-perforating screws
6,3x25 (n° 24pcs)

Likewise for the rear arch, lay on the wooden bars and proceed with assembly of the front arch as previously seen for the rear arch.
Fix the corner brackets to the supports and bar using 24 self-perforating screws 6.3x25. Fasten the screws making sure the jambs are parallel.
The parallel positon of the jambs can be checked by measuring the diagonals which must be equal.



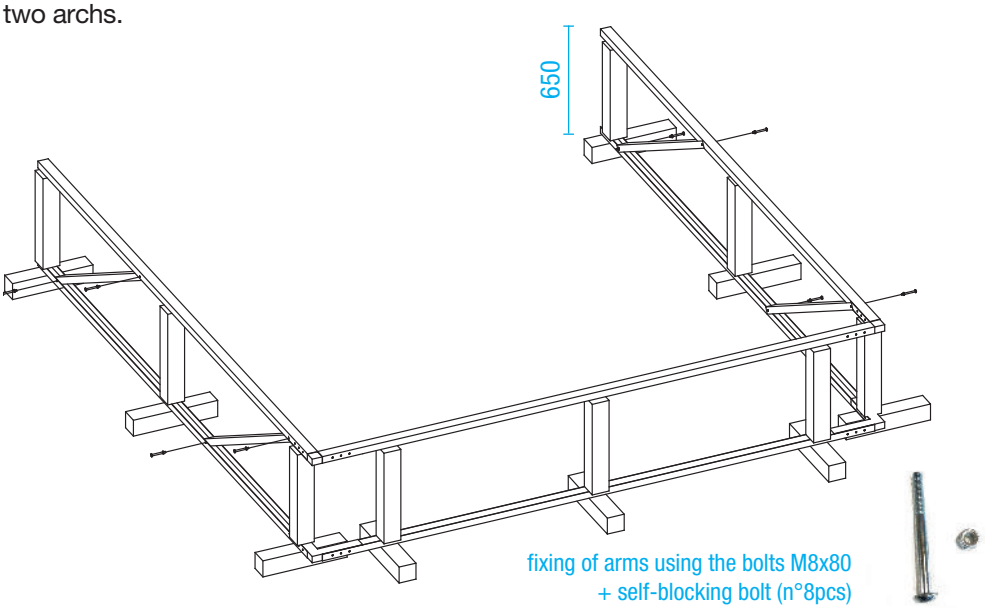
fixing using self-perforating screws
6,3x25 (n° 24pcs)

Carry on with the assembly of the two archs by positioning of the arms (see ref. 5 page 9). Attention, the grooved part of the arms should be placed towards the bottom as shown in the drawing. The arms are fixed in correspondence with the relative holes on the supports with the bolts M8 x 80 and self-blocking nuts (8 pieces provided).

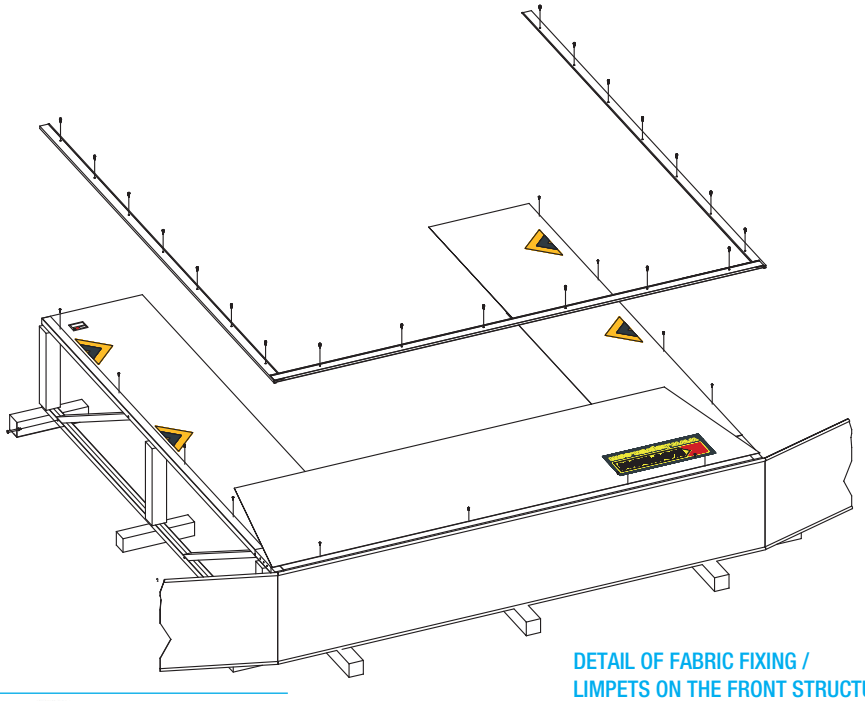
UNIT IV

INSTRUCTIONS

To facilitate assembly of the two archs and of the covering fabric you must position around the frame wooden stakes in order to establish the max distance between the two archs.



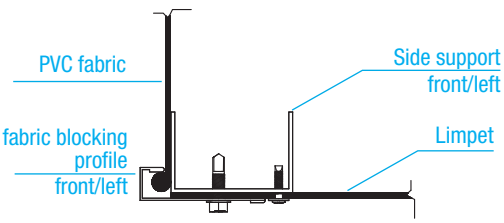
Continue with positioning of the flaps (ref. 9/10/11 page 9) on the front arch and fixing with the screws 4.2 x 19 provided.
Extend the cover over the structure and adjust the length then fix it starting from the centre above. Fix the fabric to the front arch in the relative profiles provided (ref. 6a/7a page 9) tighten everything using the screws 6,3 x 25 provided as shown below.




fixing of the fabric blocking profiles using self-perforating screws 6.3x25 (n°26 pcs)


fixing of the limpets and self-perforating screws 4,2x19 (n°16 pcs)

DETAIL OF FABRIC FIXING / LIMPETS ON THE FRONT STRUCTURE

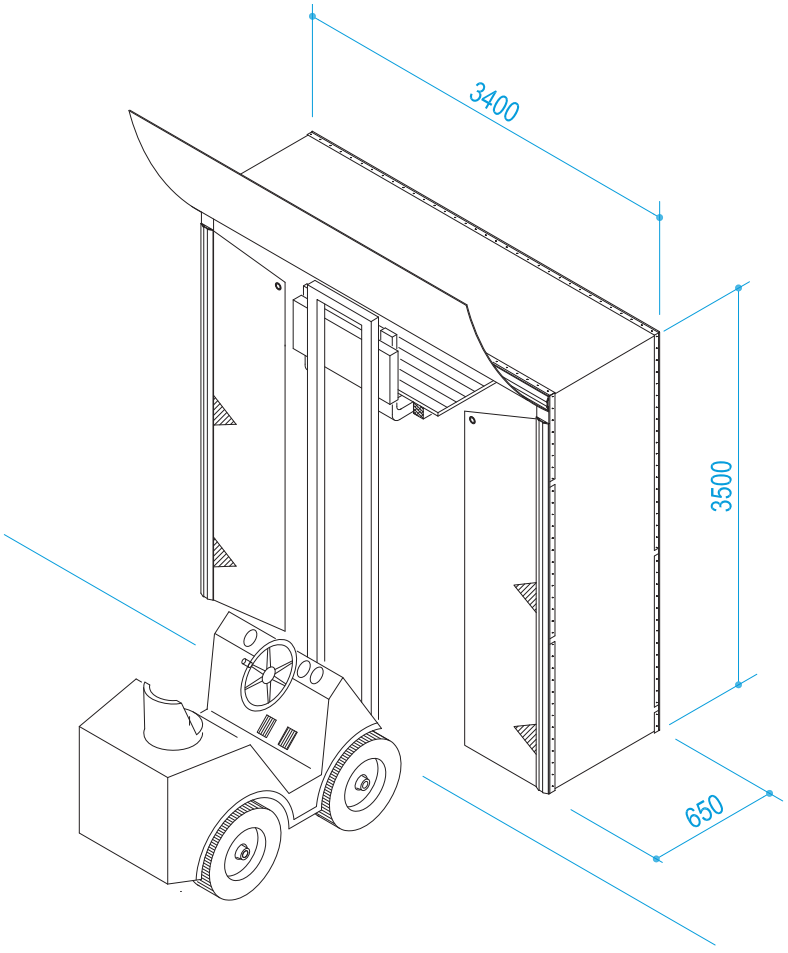


When fixing the cover make sure to extend it well by pulling it towards the ground in order to prevent hollows.

Please note that the bumper supports are in galvanized steel sheet, any operation which could scratch off the protective coating, such as welding and grinding which aret the most common, must be avoided. Protective coating is important to prevent corrosion.

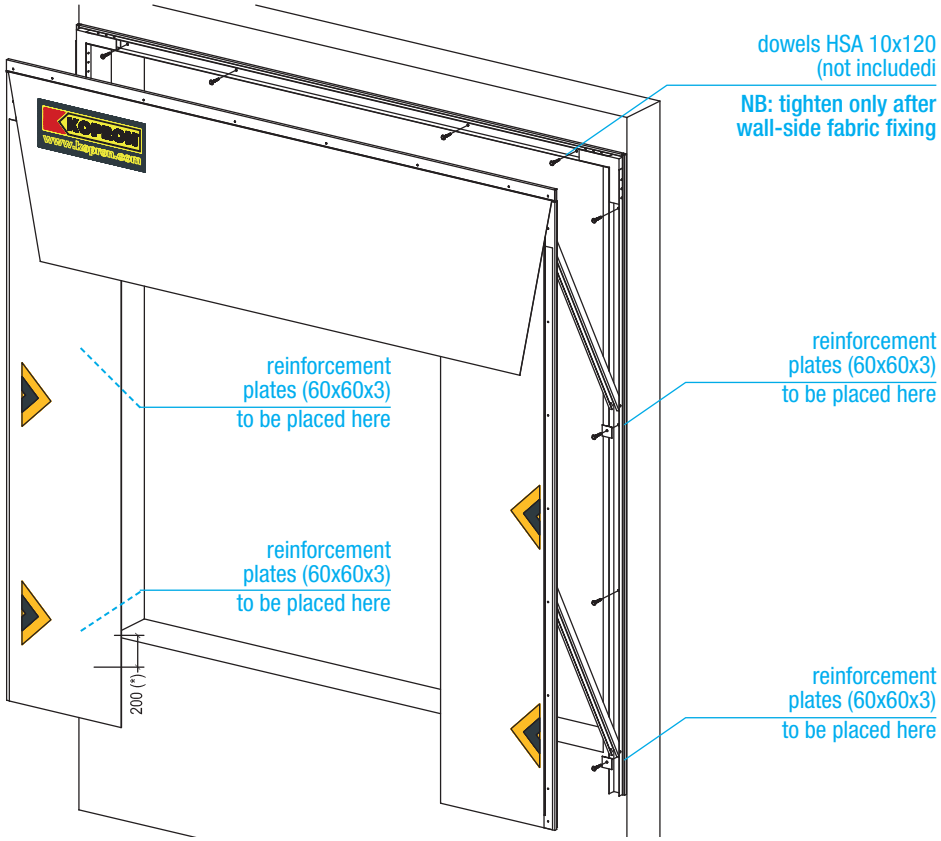
2.3 POSITIONING AND FIXING

Once the dock shleter has been assembled it must be lifted and leaned against the wall and fixed.
This operation must be carried out with the aid of a forklift and a pallet to be positioned under the back cross member of the dock shelter. Then it must be lifted slowly taking care not to strain the cross members which must accompany the lifting movement.
The pallet is necessary as a further support along with the cross members and helps to prevent the dock shelter to be stressed during lifting and positioning operations.
Use a pallet in good conditions, and take care to pad with polystyrene or similar material points of contact or edges which could damage the covering sheet.

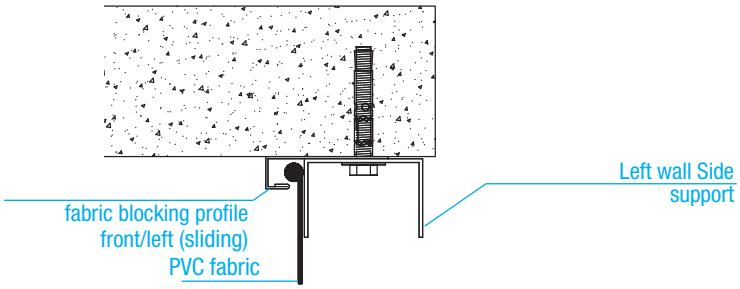


Once the dock shelter has been positioned, start fixing it after having checked the vertical position of the jambs and the perfect spirit levelling of the cross members.
Check the jambs are parallel by measuring the diagonals which must be equal.
Dowel the back arc as shown in the drawing.
In correspondence with the holes immediately below the arms, place the 4 reinforcement plates (dim. 60mm xm60mm) provided (as shown on the following page). In this phase do not tighten the dowels.

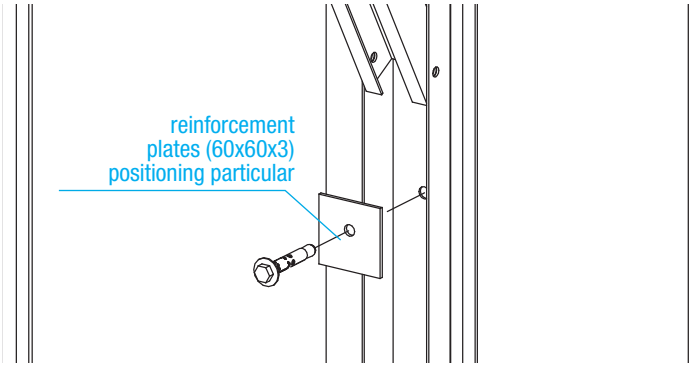
WARNING: the dowels are not included in the supply



After having fixed (without having tightened the dowels) the portal, proceed with fixing of the fabric onto the rear arch of the portal, placing the side rod of the fabric in correspondence with the relative housing. Slide the relative profiles provided (ref. 2/3a page 9) against the fabric and tighten the dowels against the wall.



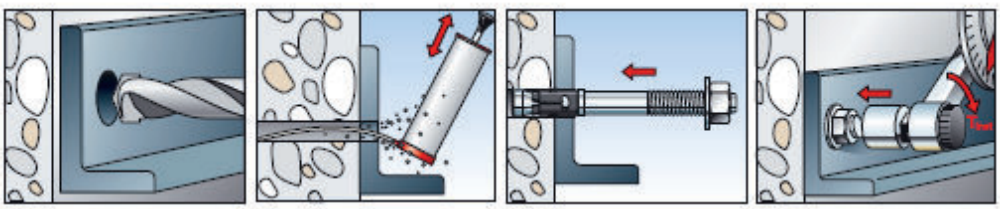
(*) Dimension 200mm is the distance between the bay, or plate of the ramp in resting position, and the lower part of the dock shelter, and it is the best suggested for a good door functioning.



2.3.1 NOTES ON THE USE OF THE DOWELS

Anchoring	length 120 mm
Certifications	ETA, Fire (IBMB and Warrington)
Basic material	concrete block (solid, intact)
Environment conditions	Inside dry
Type of anchoring	Mechanical
Functioning principle	Torque controlled expansion
Type of fixing	Through-fastening, Pre-setting
Material	Straight-carbon steel
Material coating	Galvanized min. 5µm
Identific. length mark	G
Minimum penetration depth -empty brick	50mm
Max diam. passing hole	12 mm
Insert diameter	10 mm
couple requested	30 Nm
Key size	17 mm
Total length	120 mm
Diam. thread (M)	M10
Protection from corrosion	Zinc plated to min. 5µm
Fixing width - max (tfix)	110 mm

ASSEMBLY

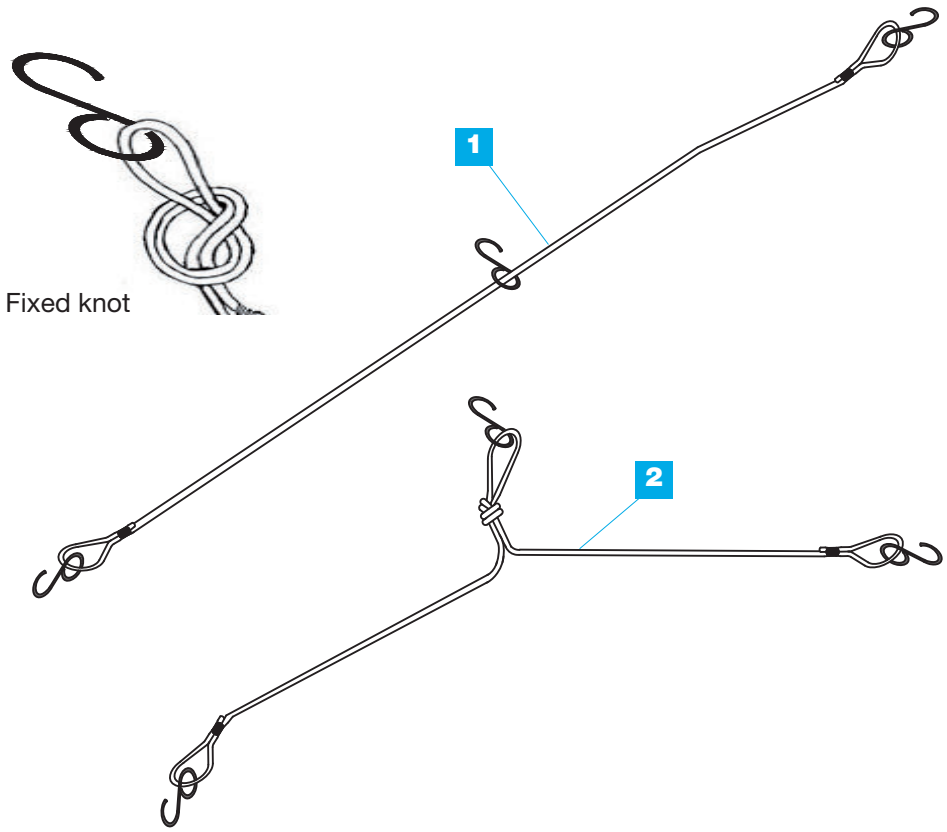


Make sure the hole is clean before inserting the dowel.

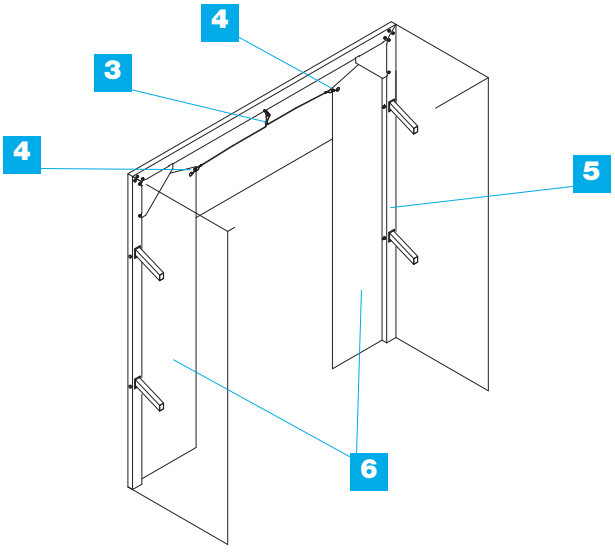
INSTRUCTIONS

2.4 ASSEMBLY OF THE ELASTIC CORDS

The elastic cord for pulling the side panels must be assembled for last once the dock shelter has already been fixed to the wall.
The cord is supplied as in ref. 1, with three metal hooks, two at the two ends and one free. The free hook must be stopped at half a cord with a knot as shown at ref. 2.



To assemble the cord you must hook the central hook (the one stopped with the knot) to the hole positioned at the center of the cross member of the front arch, and the two other hooks (at the ends of the cord) must be hooked to the loops of the side panels.



INDEX

3 Central hole of the side panels
4 Side panel loops
5 Front Arch
6 Side panels

2.5 LIST OF TOOLS AND EQUIPMENT

In order to carry out installation with ease and in safety the following tools and equipment may be used:

- Plumb line, wire for tracing, pencils, laser level, level and ruler of about 2 m
- Drill complete with inserts for drilling iron.
- Churn drill complete with inserts for reinforced concrete.
- Saw for metal with set of blades.
- Clamps and trestles
- Control panel and sockets suitable for building yards, complete with general switch,
- thermal magnetic switch and residual-current device set at 30 mA.
- Extension wires with sockets and plugs, for single phase supply 230 V and three
- phase 400 V.
- Fixed ladder 2.5 m long provided with movable elements for reaching a further
- extension of 6 m.
- Wheeled scaffold with a height which reaches the dock.
- Tool box with keys, screwdrivers, pliers, hammers, etc...
- Safety tools,safety belts, goggles, helmets, protection gloves against cuts and scratches, safety shoes, opto-isolators.
- First aid box

The assembly area must be delimited by a red and white striped ribbon normaly used in building yards

All tools and equipment must be according to EC safety standards.

2.6 REMOVAL OF EXCEEDING MATERIAL

Exceeding and waste material from assembly can be dumped along with Customer's waste material.

2.7 ENVIRONMENT CONDITIONS

For a correct functioning of the dock shelter minimum and maximum temperatures depend on the technical characteristics of the covering sheet and on the PVC of the front flaps, therefore it cannot operate under 15°C and over 50° C.
Should it be necessary to operate with different temperatures please apply for info and support to our Service Dpt.
The dock shelter shouldn't be used when covered with snow..

CHAPTER 3
USE

3.1 PARTICULAR RISKS AND SPECIFIC PROTECTION

There are no dangerous spots near the dock shelter and operator can move at ease. He must however avoid either staying or getting near to the dock shelter when lorry is in loading/unloading phase.

Vehicles must approach and dock according to regulations established by user for the safety of personnel.

3.2 FIRE-PREVENTION

Dock shelters can be installed in areas without particular fire-prevention methods. However please note that both covering fabric and bumper panels are in self-extinguishing, class 2 PVC.

CHAPTER 4
ANOMALIES, MAINTENANCE AND REPAIR

4.1 PREVENTIVE MAINTENANCE AND PLANNED INSPECTIONS

Weekly inspection
Verify if the front arch tubulars and the pantograph bars are complete or damaged.
In case of damages provide for immediate repair or replacing.
Check the fastening of the fixing dowels.
Check the fastening of the nuts and bolts assembling the archs.
Check the wholeness of the elastic cord.

Quarterly inspection
Check status and efficiency of the closing panels.
Cleaning and brushing of the panels.

Annual inspection
Fastening of the dock shelter fixing dowels.
Fastening of the door fixing dowels.

Inspection and controls, or operational interventions must be carried out by specialized personnel with proven skills as according to norm EN 292.2 art. 5.5.1.

4.2 INSTRUCTIONS FOR LUBRICATION

Monthly operation
Greasing of the hinges of the pantographs with Molykote grease.

4.3 NOTE ON THE EQUIPMENT TO USE

Normal workshop equipment is sufficient to carry out all maintenance and repair operations of the door. There is no need of special tools and equipment.

CHAPTER 5
INSTRUCTIONS ON SAFETY

Main operation	**Transport**
Secondary operation	Lifting and handling
Danger connected	Mechanical danger due to either the shape of the structure or to operations carried out.
Other risks	The operators can injure themselves by either breaking or squeezing feet and hands. Manual handling of bulky and or heavy loads.
Prevention	Personal protection wear, gloves, safety shoes, helments. Qualified personnel. Specific instructions on operations in Unit IV Chap.1 Use of lifting means according to EC standards.

Main operation	**Assembly**
danger connected	Danger due to mechanical handling of the components.
Other risks	Bruises, excoriation, pricks, cuts at hands.
Prevention	Personal protection wear, glovesi, safety shoes, hel mets and goggles. Use of lifting means according to EC standards. Appropriate tools and equipment in Unit IV Chap. 2.5 Qualified personnel. Specific instructions on operations in Unit IV Chap. 2, 3 and 4. Strictly follow the istructions to prevent specific risks existing on place of assembly, provided by Customer.

Main operation	**Positioning and fixing**
Secondary operation	
danger connected	Danger due to mechanical handling of the components. Danger linked to operations being carried out under precarious conditions and when lifted from ground.
Other risks	Bruises, fractures, falls, falling material.
Prevention	Personal protection wear, gloves, safety shoes, hel mets and goggles. Safety belts. Appropriate tools and equipment in Unit IV Chap. 2.5 Safety ladder, scaffolds. Qualified personnel. Specific instructions on operations in Unit IV Chap. 2, 3 and 4.

Main operation	**Maintenance and repair**
Secondary operation	
danger connected	Danger due to mechanical handling of the components.
	Danger linked to operations being carried out under precarious conditions and when lifted from ground.
Other risks	Bruises, fractures, falls, falling material.
Prevention	Personal protection wear, gloves, safety shoes, helmets and goggles. Safety belts Appropriate tools and equipment. Safety ladder, scaffolds Qualified personnel. Specific instructions on operations in Unit IV Chap.5.1.

5.2 WARNING FOR MAINTENANCE

It is to be said, before mentioning any other warning, that for preventive maintenance such as repair interventions you must apply to **specialized personnel** with proven experience according to norm EN 292.2 art. 5.5.1.

Once this has been established, before starting operations delimit working area with a red/white striped ribbon used in building yards, and position warning signs which prohibit the passage of vehicles.
For interventions at the top of the dock shelter, a scaffold must be used.

UNIT V

ENVIRONMENT POLLUTION

CHAPTER 1
ENVIRONMENT POLLUTION

1.1 DISPOSAL AND DISMANTELLING

Waste material must be separated according to type:

- Iron
- Plastic

Disposal and dumping must be carried out according to local regulations.

UNIT VI

SPARE PARTS

CHAPTER 1
SPARE PARTS

1.1 SPARE PARTS SUGGESTED

For any request for spare parts you may apply to headquarters at the following address:

KOPRON S.p.A. via Primo Maggio s.n. - 20064 Gorgonzola – (Milan) - Italy
☏ +39 02 – 921 52 910 🖷 +39 02 – 921 52 926

The use of non original spare parts, considered improper. This will imply for Buyer to take his own responsibilities and the loss of guarantee.

Kopron S.p.A

CHAPTER 1
SERVICE AND GUARANTEE

1.1 PROCEDURES FOR REQUESTING ASSISTANCE

For any request for service you must apply to our offices at the following address:

KOPRON S.p.A. via Primo Maggio s.n. - 20064 Gorgonzola – (Milan) - Italy
☎ +39 02 – 921 52 910 🖷 +39 02 – 921 52 926

You must mention the problem along.

1.2 GUARANTEE

1 - Kopron S.p.A. grant a guarantee period of 12 months from delivery date. Components used for production have there own guarantee established by suppliers which as well does not exceed 12 months from delivery.

2 - Kopron S.p.A. undertake to remove any defect due to error in design or material/production faults occuring within the terms mentioned at point 1.

3 - For each faulty part, Buyer must give Kopron written notice within eight days. Supplier will be charged with transport costs and risks plus customs expenses for faulty parts as well as for the supply of parts repaired or sent for replacement.

4 - Upon request of Buyer service under guarantee can be carried out locally where the dock shelter has been assembled, in this case intervention plus expenses for travel, food and lodging will be charged to customer.

5 - Guarantee is valid only in case equipment has been correctly used according to instructions contained in the Use and Maintenance manual. Guarantee will not cover faults caused by Buyer in case of maintenance or interventions not authorized by Kopron S.p.A. in writing, or due to wear and tear. Guarantee will not cover any damages caused directly or indirectly by tools, or due to missing production.

6 - Material subject to normal wear and tear is not under guarantee.

7 - The duration of the guaranteed does not exclude the obligation on behalf of Customer to stock up with spare parts suggested by Kopron S.p.A. in due time.

8 - The obligations implied in the guarantee have nothing to do with the economical conditions agreed upon and do not authorize interruptions or changes in payment modalities.

9 - Guarantee covers only the mechanical functioning of the equipment, therefore Kopron S.p.A. will not be responsible for personal Customer expectations regarding quality or quantity of the product.

Should instructions contained in this manual not be followed strictly, or if any negligence occur during maintenance, or repairs not be carried out properly, or should non original spare parts be used, this will be considered improper and will imply Buyer to take his own responsabilities plus the loss of guarantee.

Kopron S.p.A

OVER 35 YEARS OF SUCCESS WITH:

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CERTIFICAZIONI
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Kopron attraverso le certificazioni di qualità offre un'ulteriore garanzia sull'efficacia e l'efficienza dei propri prodotti.

Through certifications Kopron offers a further guarantee on efficiency and quality of their products.

KOPRON

LOGISTIC SOLUTIONS

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