Read the Manual

INSTRUCTION MANUAL

Cinto Vertel CC 302

FALL ARREST HARNESS
WORK POSITIONING BELT
SEAT HARNESS

WARNING

All users must read and understand this manual before use. This product must only be used by persons who are trained and competent in its use as part of a double rope access system. Users accept all risks and responsibilities for all damage, injury or death during all rope access activities involving the use of this product. If users are not able to accept full responsibility or all risks involved they should not use this product. All users must be competent in emergency procedures and rescue methods associated with the use of this device. DO NOT allow anything to affect the proper function of the Rope Access Harness.

Do not use this product for any other purpose.

CE 0120
EN 361:2002
EN 358:2000
EN 813:2008
NBR 15835:2010
NBR 15836:2010

CA 41253

Made in Brazil - SAFE TEC INDUSTRIA

www.safetecbr.com.br

SAFE TEC - SAFETY EQUIPMENT

VERSION 31/05/2019 DR

CE 0120
CE Certification Body
Orgão Certificador SGS United kingdon Ltd.
Weston-super-Mare, BS22 6WA, UK.

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Made in Brazil - SAFE TEC INDUSTRIA

ISO 9001

RECORD OF USE
VERTEL CC 302

Device	Rope Access Full Body Harness
Supplier	
Serial Number	
1st Use / Expiry	
Acquisition date	
User Traceability	

Record of Use and Periodic Examinations
Users should record details of use.
Maximum period between Periodic Examinations is 6 months

Date	User or Examiner	Details of Use-or Result of examination

Duplicate this sheet for continued recording.
Contact Safe Tec for further information.

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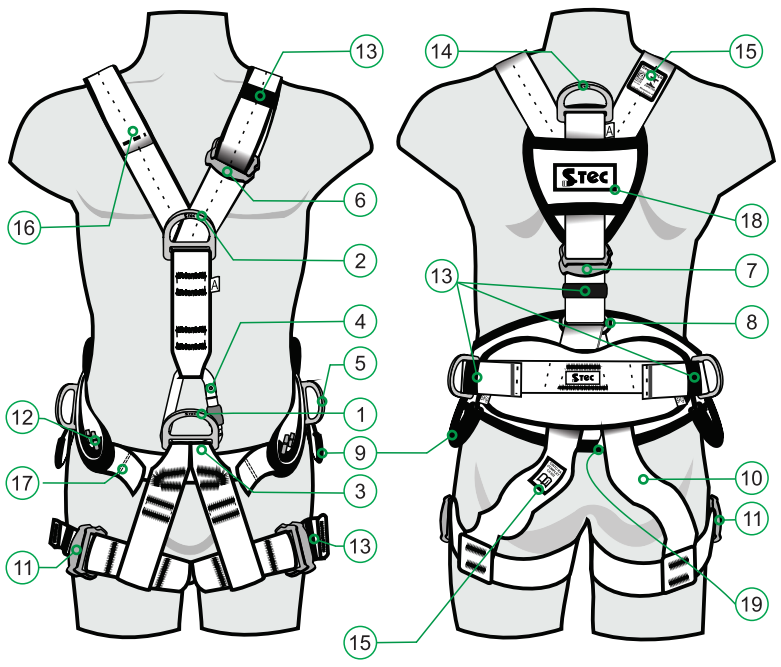
1 NOMENCLATURE OF PARTS



1 – Ventral attachment point for a descender or a positioning lanyard.
2 - Sternal attachment point: fall arrest system attachment.
3 - Ventral attachment loop for the connection between chest and seat
4 - Manual locking carabiner (not included).
5 - Lateral belt attachment points – for a positioning lanyard for use in double mode.
6 – Sternal doule-back adjustment buckles.
7 - Dorsal double-back adjustment buckles
8 - Dorsal buckle for chest and seat connection.
9 – Equipment loop.
10 – Elastic strap.
11 – Legs double-back adjustment buckles.
12 – Waist double-back adjustment buckles.
13 – Elastic retainer of the belt straps.
14 – Dorsal attachment point: fall arrest system attachment.
15 – Certification label.
16 – Severe fall indication seam.
17 – Indicative seam of waist circunference.
18 – Manufacturer's name.
19 – Batch number and production date (check under the strap (item 10).

ADDITIONAL INFORMATION

MATERIALS
Tapes: Polyester.
Paddings: Polyester and EVA
Metals: Stainless Steel
STANDARDS / CERTIFICATIONS
CE 0120
CE Certification Body
SGS United Kingdom Ltd. Weston-super-Mare, BS22 6WA, UK
EN 361:2002
EN 358:2000
EN 813:2008

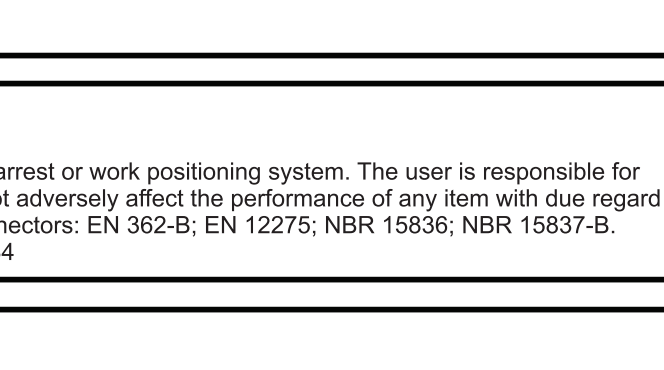
USER
MAXIMO **120 Kg**

+60°C
0
-20°C
Operating Temperature
- 30 °C + 60°C

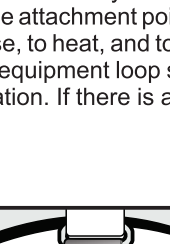
Weight: **1745 g**

MARKING

Vertel Belts are tagged with information on:
Manufacturer, size, model, certifications, serial number and lot number.



Model: CC 302



SIZES

Tamanho 01		
A	**B**	**C**
70-100 cm	40-65 cm	140-190 cm
Tamanho 02		
A	**B**	**C**
80-128 cm	50-77 cm	150-210 cm

LEGENDS

= EN FORCER Back Up Device
= EVO Descender Device
= Rope anchor 15 kN
= Max Load: 140 Kg (308,647 lb)

2 DESCRIPTION AND FIELD OF APPLICATION

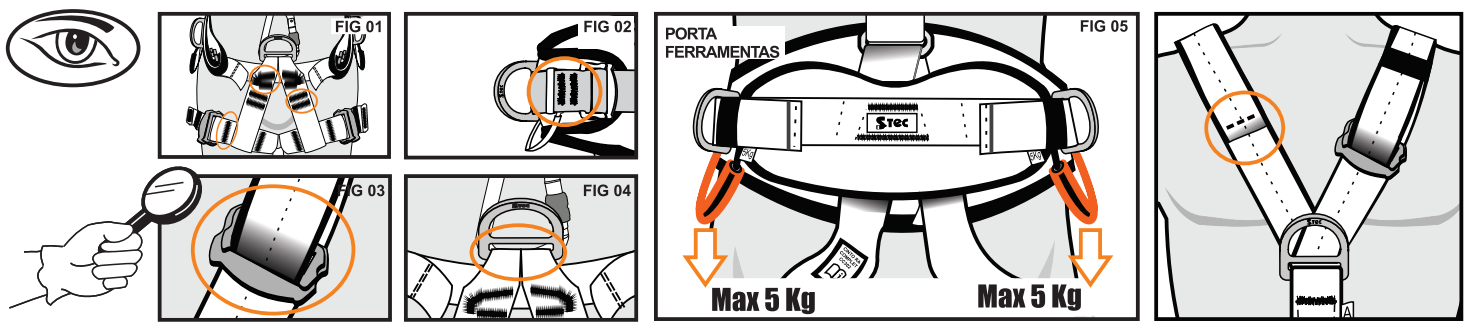
The Vertel Fall Arrest Harness, work positioning belt and seat harness it's a fall arrest PPE for work at height, rope access and activities at height. This product must only be used for one person. This product must only be used by persons who are trained and competent in its use or those placed under the direct and visual supervision. This PPE has six double-back buckles esay to use and fast adjustment. The Vertel has five “D”-rings attachment points: front sternal and back dorsal “D”-ring fall arrest points + front waist and two side work positioning “D”-rings. Materials: nylon, polyester, aluminium, steel. This product has been tested in accordance with EN 361:2002, EN 358:2000 and EN 813:2008.

3 COMPATIBILITY

Check the compatibility of the harness with the other components of the fall arrest or work positioning system. The user is responsible for ensuring the combination of all components in the rope access system do not adversely affect the performance of any item with due regard to all user instruction. During use keep closed the screw lock carabiner. Connectors: EN 362-B; EN 12275; NBR 15836; NBR 15837-B. Back-up device: EN 12841 type A; NBR 14626. Lanyard: EN 354; NBR 15834

4 INSPECTION

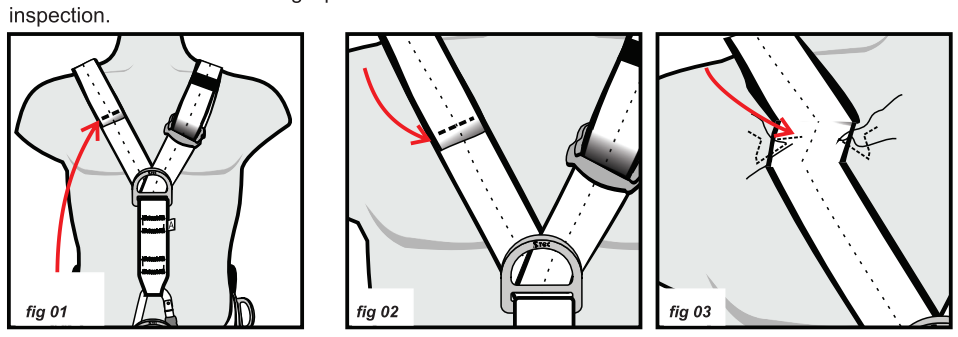
The Vertel harness must be inspected before each use and carried out by and recorded by an authorized competent person at suitable periods, these should be at no more than six months interval. Check the webbing at the attachment points (FIG 04), at the adjustment buckles (FIG 01) and at the safety stitching (FIG 02). Look for cuts, wear and damage due to use, to heat, and to contact with chemical products. Check that the buckles operat correctly (FIG 03). Check if the batch label is readable. Each equipment loop support a maximum load of 5 Kg. Following any emergency incident, the harness must be removed from service for examination. If there is any doubt about the condition of the harnesses, contact S.Tec.



5 PRINCIPLE OF OPERATION

The Vertel harness is designed in two parts, chest and seat, for confort in any situation in work at height. In case of a fall the load is distributed over the leg loops. Safe-Tec acknowledge that the Vertel harness has succesfully tested for use by works up to 120 Kg. Check the condition of the seams during the life of the equipment. This product should only be used by properly trained personnel. The improper use can cause damages and serious accidents, including death, the users assume all the risk and responsibility, for any damage or injury that involves the use of this product. Do not use this equipment for any other purpose that has not been designed.
NOTE: The certification test mass used is 100 kg.

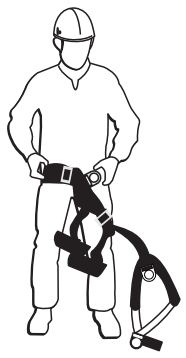
VISUAL FALL INDICATOR
The Vertel Harness has strategic points that allows the user to determine when the harness has arrested a fall and indicate a need for analysis and inspection.



Attention, after the retention of a break occurred in the seam indicator (fig 03).
This disruption is an indication that the belt retained a severe fall. The same does not compromise the safety and immediate integrity of the user however, the belt should be withdrawn from use.

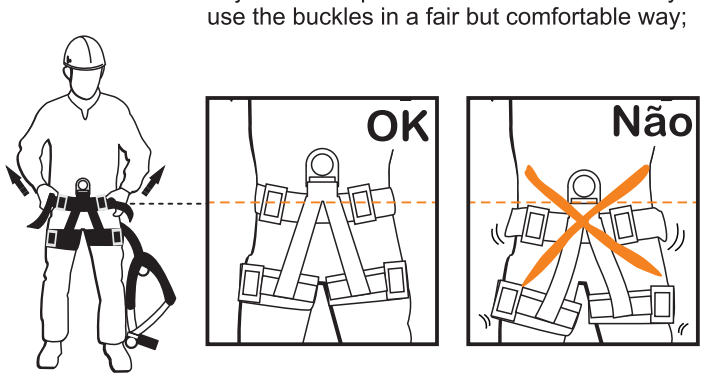
ATTENTION!
The individual belt is not a fall arrest device, it is necessary to complement the fall protection system with height level difference with the appropriate components their standards. The belt should be discarded after a fall is retained.

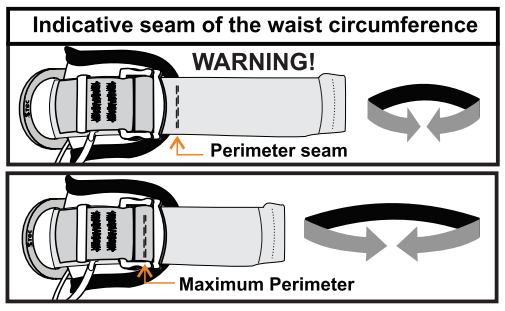
6 INSTRUCTIONS FOR USE

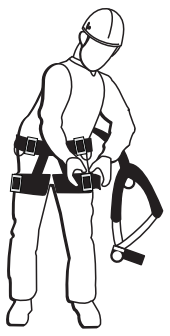


1º STEP
To put on it is necessary that it first be checked if the shoulder strap is up; Pass the legs inside the belt and place the legs through the leg loops; Put the belt on the waist line in the correct position and at this time check that the engagement element for support and ventral positioning is forward.

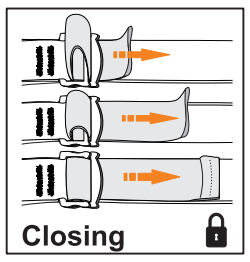
2nd STEP
Adjust the straps in the waist line to securely use the buckles in a fair but comfortable way;

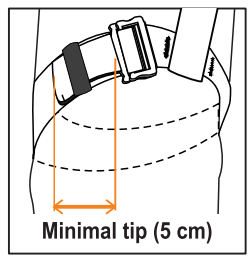


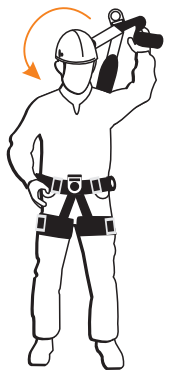




3rd STEP
Also adjust the leggings buckles. Make sure the buckles are facing outward, closed, and the padded circumference is well positioned.

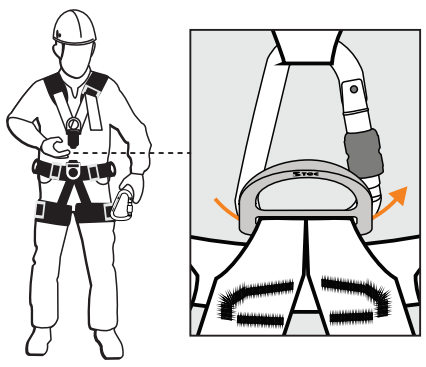


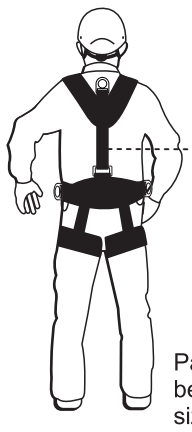


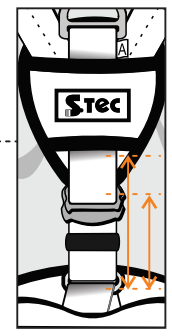


4th STEP
View part of the chest by passing the head through the V-shaped shoulder straps.

5th STEP
Close the belt with a locking connector. Check the correct positioning of the connector on the belt.



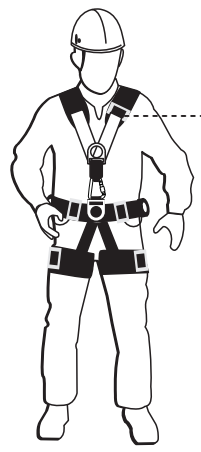


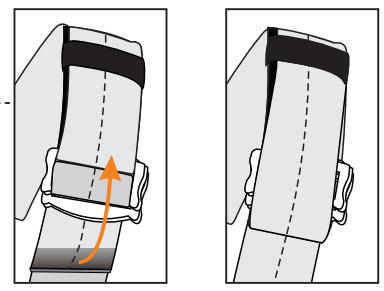


Regulation of the back.

Pay attention to the adjustment of the back of the belt. Pull the straps through the buckles to fit your size. The correct height allows the user in a suspended position to be secure.

Finally check. If you still need to adjust any part of the harness, do so before starting work.

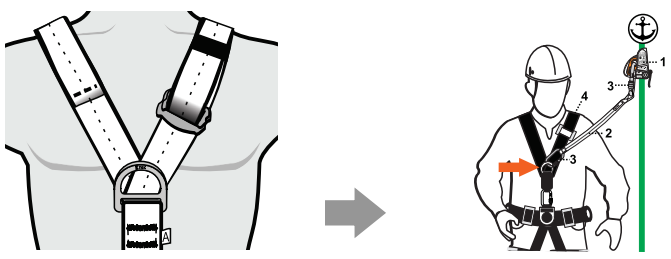




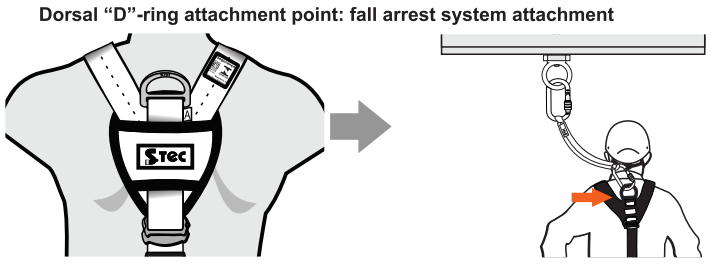
Use the elastic retainer to attach the leftover of the belt straps.

7 ATTACHMENT POINTS

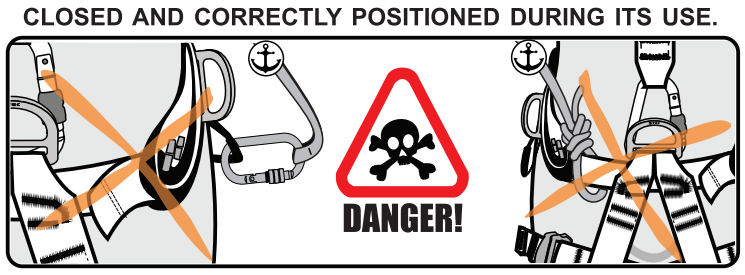
Sternal "D"-ring attachment point: fall arrest system ATTACHMENT



Dorsal "D"-ring attachment point: fall arrest system attachment

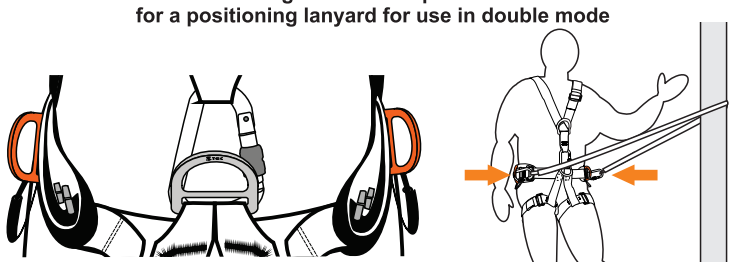


ATTENTION! CHECK PERIODICALLY IF THE CONNECTOR IS CLOSED AND CORRECTLY POSITIONED DURING ITS USE.

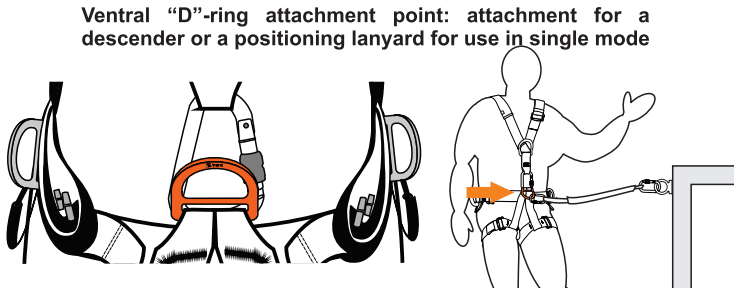


8 WORK POSITIONING

Lateral "D"-ring attachment points: attachment for a positioning lanyard for use in double mode



Ventral "D"-ring attachment point: attachment for a descender or a positioning lanyard for use in single mode

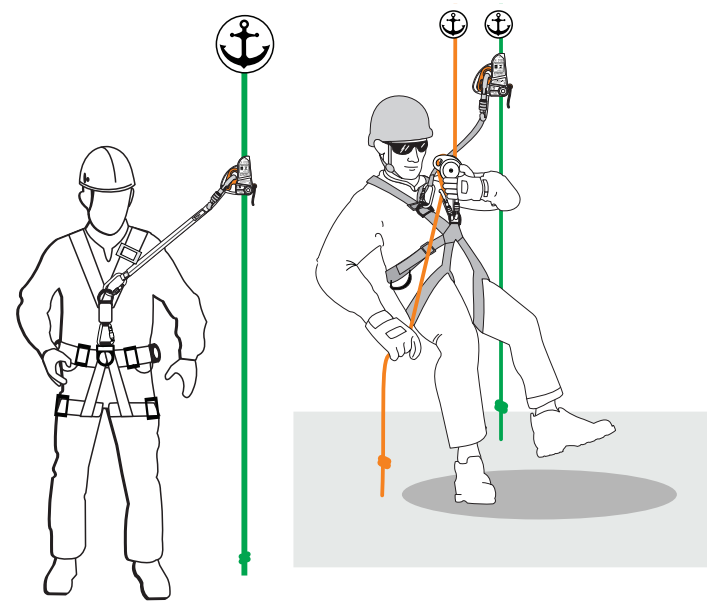


ATTENTION!

It is imperative that you have a previously planned rescue plan that can be carried out safely and efficiently.

9 HOW TO USE

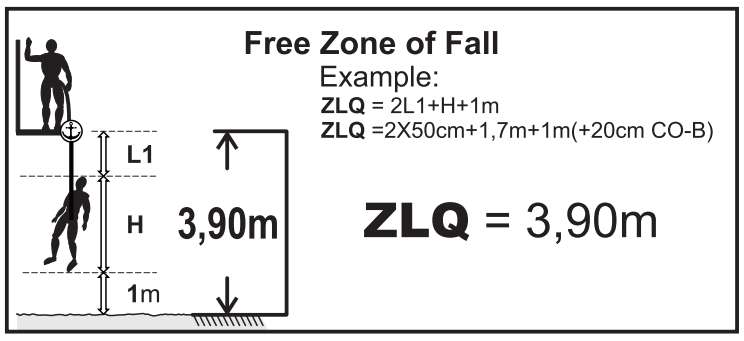
ONE EXAMPLE:

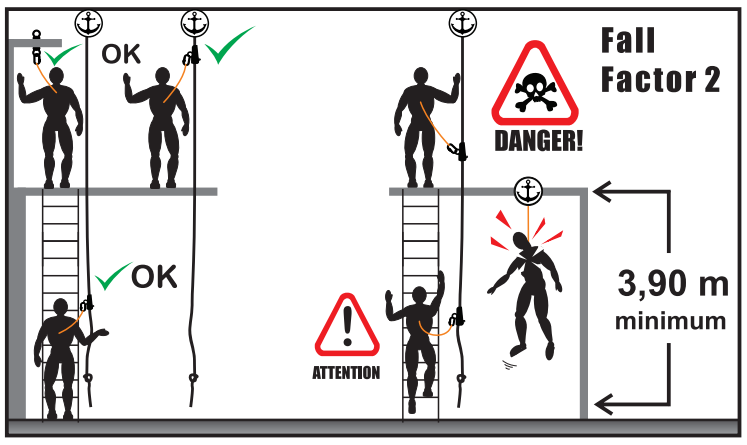


While wearing the harness, the user should hang in suspension with his equipment to verify that the harness is adequate for intense use. Make all the necessary adlustments before start work.

10 CLEARANCE DISTANCE

Free Zone of Fall is the distance found by multiplying the maximum length of the extender (L1) x 2, and add the height of the operator (H) plus 1 meter. Example: L1 = 0,7 m (EX03 Extender + 2 COB connectors) H = 1,7 m (operator height). ZLQ = 2L + H + 1.20m





NOTE: This example of ZLQ only covers the use for CF = 2 (Fall Factor 2). When used with other equipment the ZLQ may increase or decrease. Check the workplace.

11 GENERAL INFORMATION

Read and understand this manual prior to use and save for future reference. Only the techniques presented in this manual are authorized. Some examples of miss-use are included, these have a stripe or pictogram of a skull and should be avoided, these are some examples of miss-use, it is impossible to foresee all ways equipment can be miss-used and users should never use equipment in ways that are not 100% verified prior to being used to provide personal safety, in case of doubt contact S.Tec. When any doubt exists regarding its efficiency equipment must not be used.

Sea Water: it is essential that this product is cleaned as soon as practicable after each exposure to sea water or saline environment.

Chemical reagent: avoid contact with any substance or material that may causes corrosion or other damage to the any material or working action of the device. If contact occurs consult expert advice as to damage and decontamination requirements. Inspect prior to any re-use.

Disinfection: following any contamination the source of the contamination should be determined and advice obtained as to suitable disinfecting procedure. After disinfection the device should be re-cleaned. Sterilization may be required.

Cleaning: If soiled rinse in clean warm water of domestic supply quality (maximum temperature 40°C) with mild detergent at appropriate dilution (pH range 5.5 - 8.5). Dry naturally away from direct heat sources. To remove grease use a detergent that has properties that do not affect the textile or metal components.

Lifespan: it is very difficult to define the safe lifespan due to varying use and storage conditions and may be as little as one use, or even earlier if damaged (e.g. in transit or storage) prior to first use. For the product to remain in service it must pass a visual and tactile examination. Maximum lifespan: 5 years from 1st use or 10 years without use.

Warranty: The Rope Access Complet full body harness has a 1 year warranty against manufacturing defects, proof of purchase required. The warranty does not cover use wear, miss-use, abuse, neglect or any alterations, maintenance or repairs performed outside the factory.

Obsolescence: this product may become obsolete before the end of its lifespan. Reasons for this may include changes in applicable standards, regulations, legislation, development of new techniques, incompatibility with other equipment etc.

Do not store wet.