

RESQ®



INSTRUCTION FOR USE

SOLO X & SOLO X+

 **CRESTO SAFETY**

EN

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DA

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CZ

NL

FOR YOUR OWN SAFETY, IT IS IMPORTANT THAT YOU READ AND FULLY UNDERSTAND THIS USER MANUAL!

This document gives information about the correct use of the RESQ Solo X and Solo X+ in different situations. These instructions must be read and fully understood by all persons who are going to use the RESQ Solo X. We also recommend that all employers must read these instructions carefully, to ensure a good safety level together with a full understanding of the product and its use. Users shall be trained in the use of the equipment.

INTRODUCTION

This, one time use emergency equipment, is designed for evacuation from height and operates automatically. It can be used for one person with a controlled descent speed of 0,5-2m/s. For load and distances and other limitations see "Technical data" in this user instruction.

This RESQ Solo X is made in accordance with the European PPE Regulation 2016/425 and complies with EN341:2011 Descender device class D and ANSI/ASSE Z359.4-2013.

Note! The RESQ Solo X is a ONE TIME USE device.

Applicable as evacuation equipment from Wind turbines, tower cranes, sky lifts, buildings, towers etc.

Warning! The equipment shall only be used by a person trained in its safe use.

Warning! The user must be in good physical and mental condition. In case of known disorder, the user must be aware of possible consequences, as conditions such as cardiovascular conditions, diabetes, blood pressure deviations, epilepsy and balance problems or any other medical condition that can be hazardous to the safety of using the equipment.

Warning! Equipment use must be supported by the company's own accident emergency procedures related to daily work.

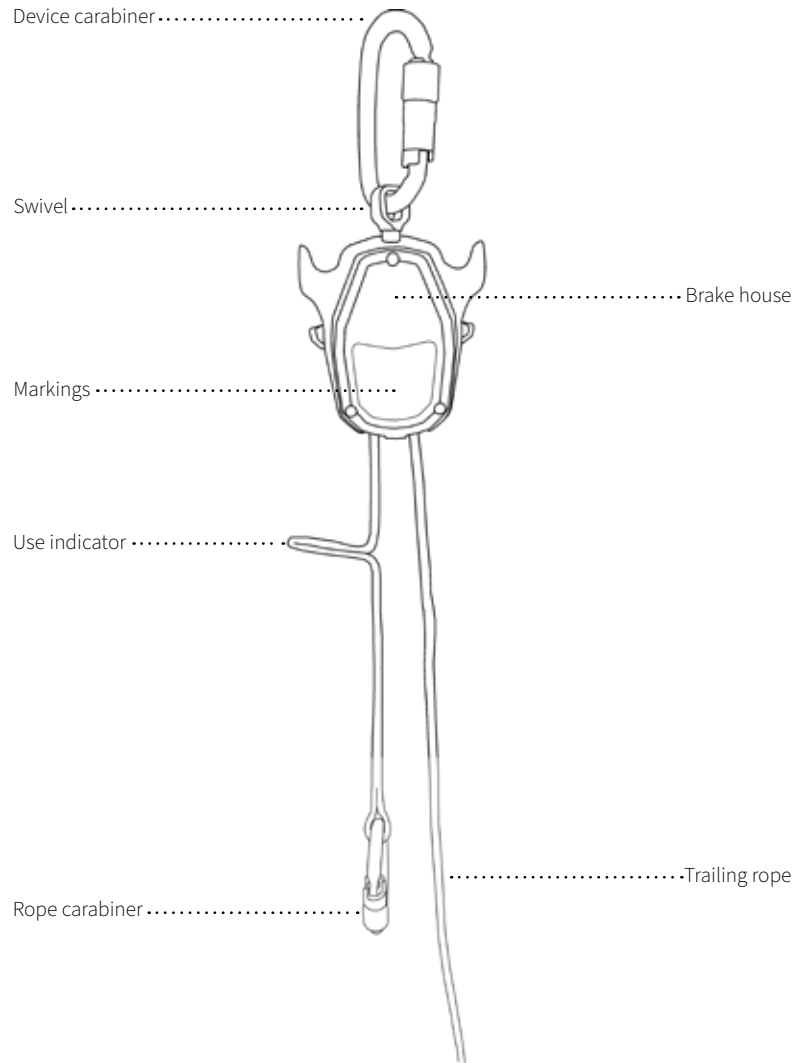
Warning! Do not make any alternations or additions to the equipment without the manufacturer's prior written consent, and any repair shall only be carried out in accordance with the manufacturer's procedures and guidelines.

Warning! Do not use the equipment outside its limitations or for no purpose other than that which it is intended.

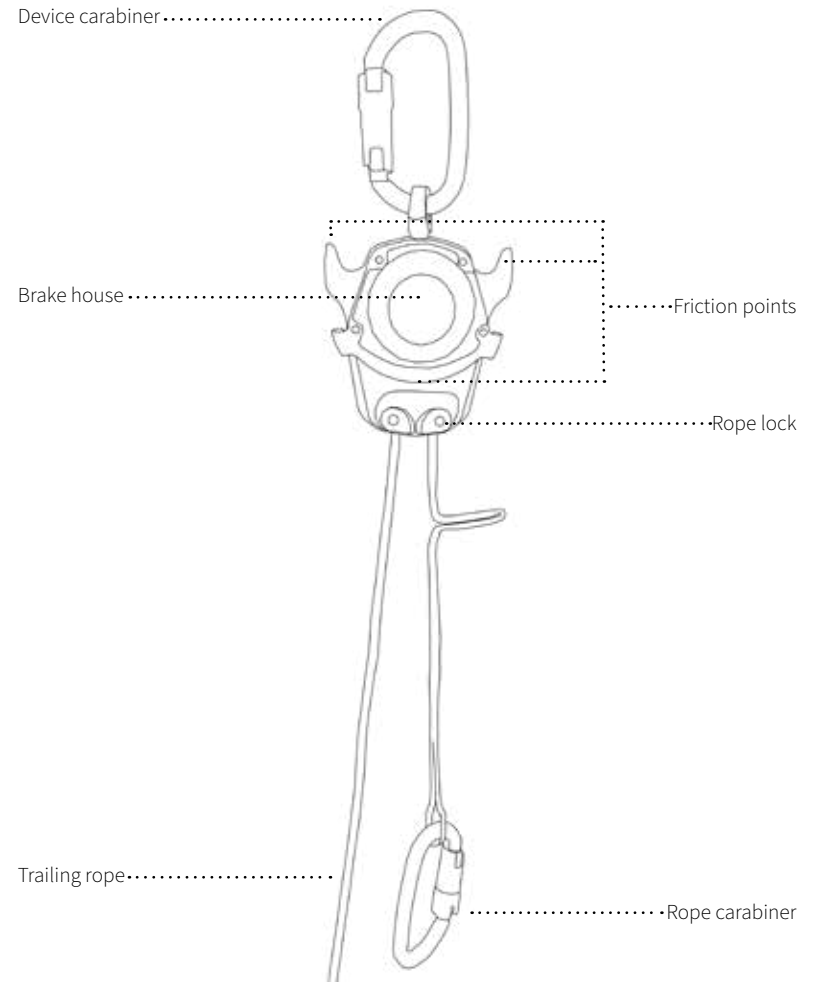
Warning! The equipment must only be used for rescue and evacuation and not intended as fall arrest equipment or as a utility crane.

OVERVIEW SOLO X AND SOLO X+

Back



Front

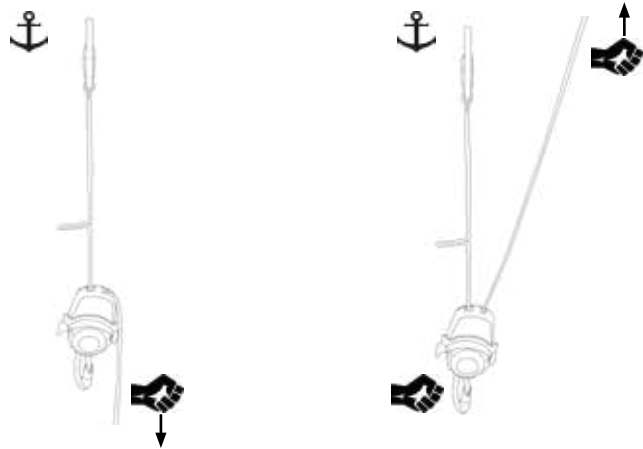


USE

Note! Before use of the equipment always check the function and condition to ensure safe usage. If stored in the RESQ vacuum solution, only check that the vacuum is still intact. If punctured you must inspect the function and condition of the equipment before use.

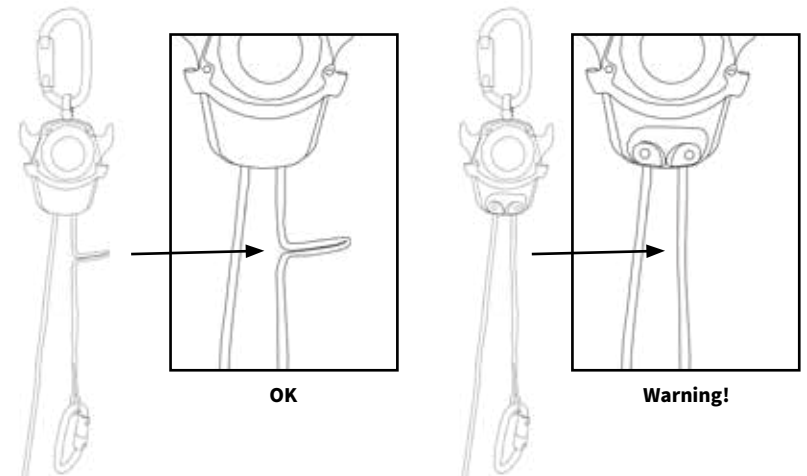
Note! If the equipment has become wet, especially in cold conditions, you must follow the below steps to ensure full drainage of water inside the brake. These steps do not apply to equipment in intact vacuum seal.

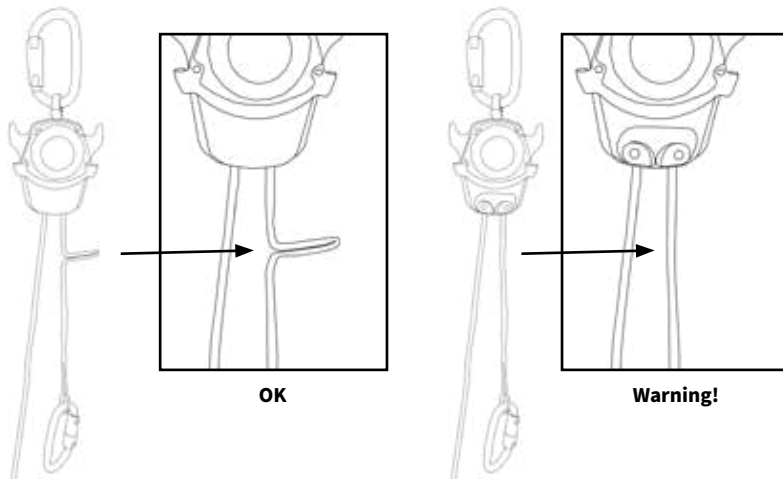
1. Attach the rescue rope carabiner to the anchor point.
2. Grab the device carabiner and pull hard 2-3 meters.
3. Now grab the trailing rope and pull hard upwards while holding a slight counter for with the other hand in the device carabiner.
4. Repeat 2-3 times.



Pre-check

- ▶ Check the rope along its entire length for any signs of chafing, varying thickness, cuts, chemical especially acids contact, change of shape, UV-deterioration, stiffness or other deformation with permanent kinks.
- ▶ Check the stitches in the end terminations for any loose threads or damage. Check the carabiners in the rope and equipment for any signs of significant corrosion, wear, deformation, cracks and limited gate function.
- ▶ Check the descender device for any cracks, deformation or missing parts. Test the brake function of the device by pulling the rope through the device hard for at least 3m in each direction (Note: that the brake force must increase with increased pulling power). Check the friction loops for any deformation.
- ▶ Check the function and spring action of the rope locking mechanism.
- ▶ Check the use indicator on the rope below the rope carabiner. If broken, Do NOT use the equipment send the device for inspection.





Note! This must always be in conjunction with the national and local requirements.

Only connect to a structure with a minimum strength of 12kN or designed for the purpose. Strive to position as high above as possible and protect from edges that could damage the rope.

To be used with fall arrest harness EN361, Rescue harness EN1497 or rescue slings EN1498.

See user instruction of the body holding device for correct attachment of the equipment.

Warning! Withdraw the device immediately until confirmed in writing by a competent person if any doubts arises about its condition for safe use or if it has arrested a fall.

Warning! Always use a fall arrest system if there is a risk for fall when rigging the equipment.

Warning! Always ensure that in a fall-arrest system, it is essential to check for clearance below the user before each use, to avoid any impact with the ground or an obstacle in case of a fall.

Make sure that the anchor point is correctly positioned, in order to limit the risk and the height of fall.

When using multiple pieces of equipment together, a dangerous situation can arise if the safety function of one piece of equipment is affected by the safety function of another piece of equipment.

Warning! Extreme temperatures may affect the capacity of the device.

Warning! Protect the rope for any edges that may compromise its integrity.

Warning! Long descent distance with minimum load in high wind and trailing rope may affect the descent speed as the trailing rope will create a counter force.

Warning! Always have an operator operating the device when top mounted if entanglement of the rope will occur and block the descent.

Compatible with PPE components within EN, ANSI or CSA designed for the purpose.

TECHNICAL SPECIFICATION

Type:

RESQ Solo X / RESQ Solo X+

Rope:

Aramid hollow core rope 4,8mm Material: TWARON; Weight: 17g/m

Certification:

EN341:2011 cl.D

Compliance:

ANSI/ASSE Z359.4-2013

Max descent height:

300m

Max descent load:

141kg

Min. descent load:

30kg

Max. ambient temperature:

+60°C

Min. ambient temperature:

-40°C

Descent velocity:

1,3m/s loads from 30kg.

Increasing speed when load is increased, max. speed of 1,7m/s

Calculation of descend energy:

$$W = m * g * h * n$$

m= descent load (kg), g=9,81 m/s², h= descent distance (m), n= number of descents

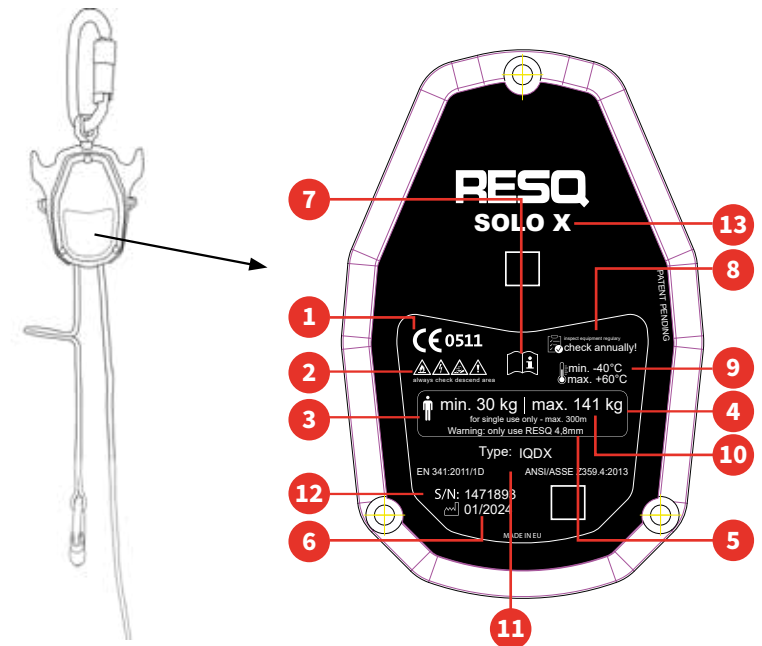
BASIC EVACUATION GENERAL INFORMATION

Secure the equipment to the anchor point at least one meter above the platform. Check that the intended descent path is free of any obstacle that may obstruct the descent.

Throw the rope bag to the ground if this is appropriate and done responsibly. Preferably, the bag to be connected to the user.

Note! Never leave the device top mounted if nobody is supervising and controlling the device. Use body mounted configuration to enable full control of the device during descent.

MARKINGS



1. CE marking of the supervisory authority
2. Warning: hot surface, descending into electrical, thermal or chemical hazards
3. Max. Number of people with simultaneous use
4. Max. and min. rated load
5. Compatible rope sizes and types
6. Production year and months
7. Always read and follow the instructions for use!
8. Perform an inspection regularly / at least once a year
9. Application temperature range
10. Max. Descent height acc. standard (multiple use)
11. Harmonized standards
12. Serial number
13. Product name

BASIC EVACUATION TOP MOUNTED

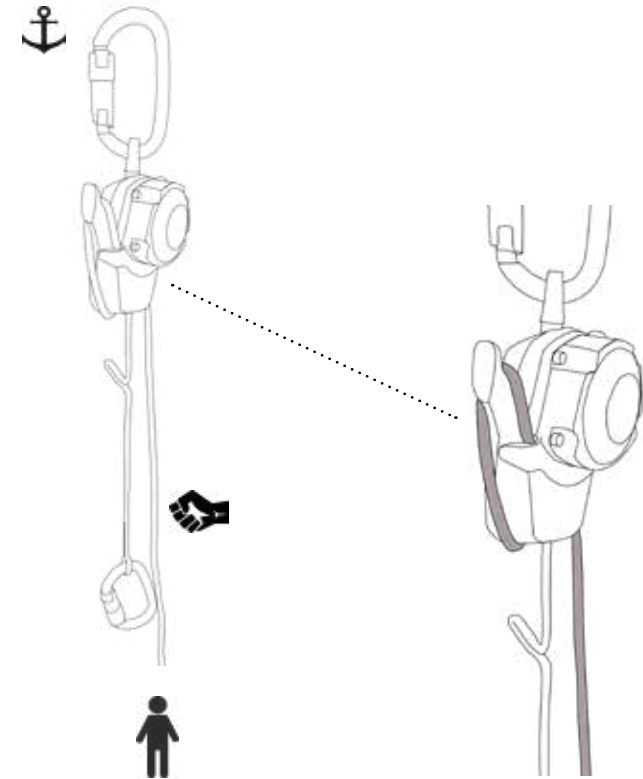
1. Attach the rescue rope carabiner to the harness attachment point (marked with A) or approved body holding device in accordance with its user instruction.
2. Remove any slack between you and the device by pulling the trailing rope downwards.
3. Hold on to the trailing rope while transferring the load into the device. Carefully swing free of the platform and ease the grip around the trailing rope to begin the descent.

Note! Always keep control/grip around the trailing rope as it might be impossible to regain control if lost.

Warning! The body of the device will accumulate heat from the brake and may be HOT enough to injure the user and other parts of the PPE. Always use protective gloves when operating the device and rope.



4. If the speed needs to be controlled during descent, you can add friction around the friction points as shown by taking the trailing rope around the friction point. If more friction is required, continue with the trailing rope into the friction slot and over the other friction point.

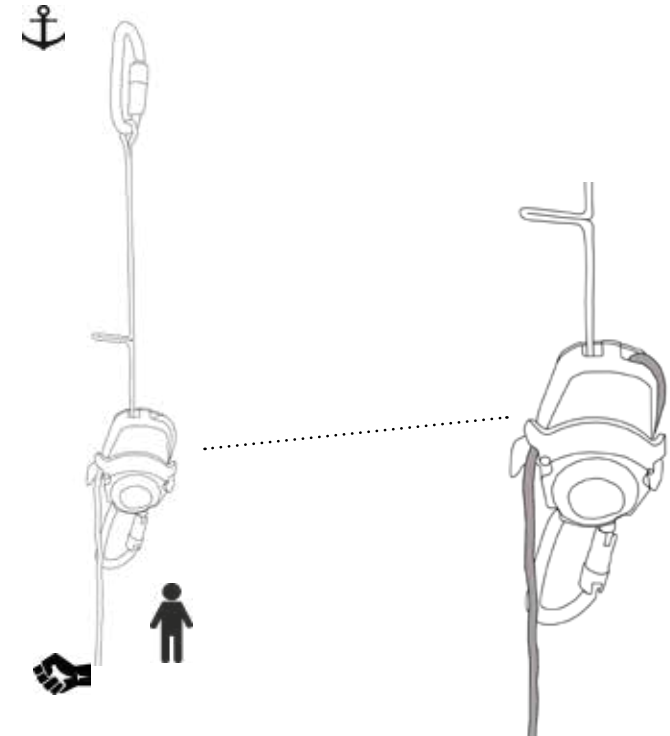


BASIC EVACUATION BODY MOUNTED

1. Attach the rescue rope carabiner to the anchor point.
2. Attach the device carabiner to the harness attachment point (marked with A) or approved body holding device in accordance with its user instruction.
3. Remove any slack between you and the device by pulling the trailing rope upwards. Hold on to the trailing rope while transferring the load into the device. Carefully swing free of the platform and ease the grip around the trailing rope to begin the descent.
4. Once free from any obstacles, just let the trailing rope pass thru your hand to detect any potential entanglements.



5. If the speed needs to be controlled during descent, you can add friction around the friction points as shown by taking the trailing rope around the friction point. If more friction is required, continue with the trailing rope into the friction slot and over the other friction point.



CONFIGURATE ADDITIONAL FRICTION RESQ SOLO X AND LOCKING OFF THE RESQ SOLO X+

Note! The **Solo X** is pre-configured for body-mounted descents with additional friction to minimize steps for all types of evacuations.

Follow the steps to configure the friction of the Solo X and to lock off the **Solo X+**. Reverse the steps to remove the friction configuration

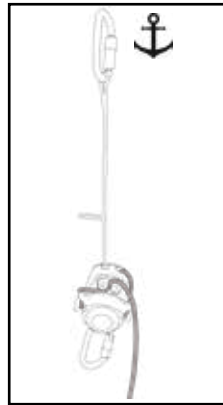
For Body mounted Solo X & Solo X+



Step 1.



Step 2.



Step 3.

ONLY for Solo X+

For Top mounted Solo X & Solo X+



Step 1.



Step 2.



Step 3.

ONLY for Solo X+

MAINTENANCE AND INSPECTION

The rescue and evacuation equipment is an emergency equipment and must be inspected after it has been unpacked and used. The equipment must be serviced and repacked by a Cresto authorized competent person.

Note! During transport and storage, keep the device dark and dry.

Inspection and service of the equipment must be carried out by the manufacturer or a partner whom is authorized by the manufacturer and in accordance with the manufacturers guidelines.

If stored, maintained as described and used in normal condition, the expected lifespan of this device is 10 Years. Note: For RESQ Solo X vacuum sealed, see "Vacuum solution manual" for extended lifetime, inspection intervals and service guidelines.

Note! If the equipment is installed at a workstation and left in place between inspections it must be protected by the RESQ vacuum solution to ensure protection from environmental conditions.

Note! The device shall be stored in a dry, dark and well-ventilated location, protected against steam, sharp edges, vibration and UV-light. The device shall be kept clean for best functionality and durability. Metal parts can be blown clean with compressed air. Avoid lubricating oil! Lightly soiled devices can be washed with a brush in lukewarm water. A mild soap solution can be used. Wet devices is hung up to dry. The device shall be allowed to air-dry without being subjected to open fire or any other heat source.

The device log on the last page must be updated with all periodic inspections, service and repairs and other matters concerning the safe use of the device, if the CRESTO INSPECTOR data base is not utilized.

Warning! For the user's safety the device shall be inspected at least every twelfth month in order to ensure its functionality and durability (refer to EN 365). The inspection can be registered in Inspector online at www.crestosafety.com

Note! In cases of frequent usage/storage of the device or in aggressive environments, inspections shall be carried out at shorter intervals (as decided by a trained competent person).

Warning! The inspection shall be carried out by a competent person (a person who has been trained and is competent in fall protection equipment inspection) who holds a certificate for inspection and in accordance with the manufacturer's inspection procedure as well as EN 365.

Warning! The device must not be modified or supplemented using accessories other than those supplied by the manufacturer. Repairs or replacement of parts may only be carried out by the manufacturer.

Warning! Do not make any alterations or additions to the equipment without the manufacturer's prior written consent, and any repair shall only be carried out in accordance with manufacturer's procedures.

INSPECTION CRITERIA

Rope:

Check the entire length of the rope for damage including cuts, nicks, abrasion, fraying, discolorations, heat or chemical damage, UV degradations and moisture. Check the terminations and stitching for damage. Check the use indicator.

Connectors:

Check gate function, abrasion, deformation, corrosion, cracks and nicks

Device:

Check for any signs of corrosion, cracks nicks, deformation, abrasions. The device must be opened for inspections to verify that the rope housing and gears are without damage and or corrosion.

Markings:

Legibility of marking, serial no. date of manufacturing

SUSTAINABILITY & RECYCLING

We design and manufacture premium products, with premium materials, to be used actively and to be sustainable. When the product is decided to be taken out of use, or its maximum lifetime has expired, it should be recycled according to your local legislations. Our products are made of aramids, aluminium, polyester and metal components. If necessary dismantle the metal components before recycling. You can also send the complete product to Cresto Safety and we will take care of the recycling in order to reduce our impact on the environment.”

COMPLIANCE

Manufacturer:

CRESTO Safety
Diabasgatan 16
SE-254 68, Helsingborg, Sweden
+46 (0)42 56 300
support@crestosafety.com
crestosafety.com

EU Type Examination by:

EU Type Examination by:
Notified Body: 0511
AUVA-STP - Sicherheitstechnische
Prüfstelle IZ NÖ Süd Straße 15
Objekt 77, Stiege 2
2351 Wiener Neudorf

Production control by:

EU Type Examination by:
Notified Body: 0511
AUVA-STP - Sicherheitstechnische
Prüfstelle IZ NÖ Süd Straße 15
Objekt 77, Stiege 2
2351 Wiener Neudorf

Warning! It is essential for the safety of the user that if the product is resold outside the original country of destination the reseller shall provide instructions for use, for maintenance, for periodic examination and for repair in the language of the country in which the product is to be used.

Download your user instruction and Declaration of Conformity at <https://www.crestosafety.com/documentation>.

LOG

Product	RESQ Solo X / RESQ Solo X+
Manufacturer	Cresto Safety
Owner	
User	

Serial number / lot number			
Purchased on	Seller	First use	Item number
Inspections must be carried out at least once every 12 months by a competent person.			

Date	Inspection results, notes	✓ ✗	Inspector, signature

✓ Product is OK > continue using product ✗ Product is damaged > send to manufacturer

Date	Inspection results, notes		Inspector, signature

✓ Product is OK > continue using product ✗ Product is damaged > send to manufacturer

