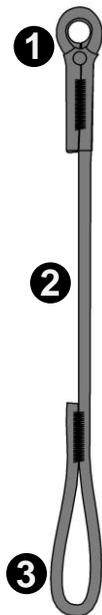


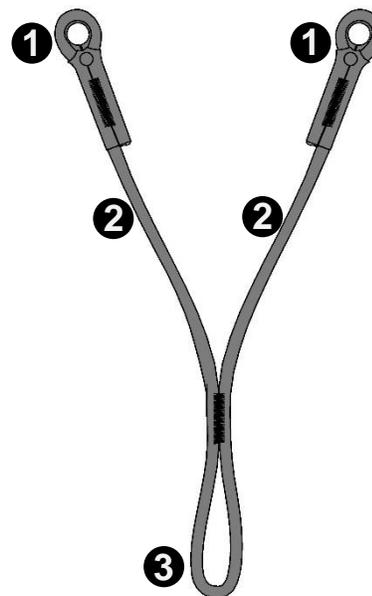
Instruction manual for adventure park lanyards certified according to EN 354

SPARROW



1. Sewn end (can be equipped with an EN 362 connector);
2. Kernmantle rope, diameter 10,5 mm;
3. Sewn end with large eyelet

SPARROW TWIN



1. Sewn end (can be equipped with an EN 362 connector);
2. Kernmantle rope, diameter 10,5 mm;
3. Sewn end with large eyelet

Thank you for choosing VERTIQUAL®! You have purchased a high quality product that will reliably protect you and will be your companion for a long time when working at heights and depths. This manual must be read and understood before using the product! This product will be used with other equipment (components) thus forming a system for working at heights. Please refer to the instruction manual of each component in your system for compatibility and correct use! Following these instructions accordingly is essential for your safety. Failure to do so can result in serious or even fatal accidents! Keep these instructions together with the product, accessible to all users, so they can consult them whenever is needed!

WARNING! These instructions are a basic comprehensive guide to the safe use of the purchased equipment. They contain general information about the product, intended to help the user, but cannot cover all the situations that may occur in the daily activities and cannot in any case replace the specialized training courses for safety at heights. This PPE against falls from heights can only be used by well-trained users, who are familiar with the relevant legislation and who have successfully completed a special safety training course for working at heights.

WARNING! For works with risk of falling from heights or in depths, a risk assessment must be carried out in advance in accordance with current regulations and legal provisions (EN standards or specific national rules) that will provide adequate measures for safety and rescue!

WARNING! Instructions for use are updated when technical or legislative changes occur. The latest version of the instructions overwrites previous versions and is the only valid version. Please make sure you follow the instructions of the most recent version. You can download the most recent instructions from our website www.vertiqualsafety.com by accessing the section of each product. For help or additional questions, please contact us at office@vertiqualsafety.com or Tel. (+40) 0365/882143.

DESCRIPTION

SPARROW and SPARROW TWIN lanyards are made of high tensile polyamide rope (Ø 10,5mm). All ends are held by special sewing patterns and protected by transparent sleeves. The Sparrow lanyard has two ends and the Sparrow Twin has a “Y” shape with three ends. The sewn ends (1) are also equipped with plastic thimbles which provide additional protection for the eyelet when used with a metal connector (EN 362). The sewn ends (3) have large eyelets which are to be connected to the ventral attachment point of an EN 12277 or EN 813 certified harness as shown in “CONNECTING TO THE HARNESS” section. The lanyards can be equipped with EN 362 connectors and can be manufactured in various lengths between 0,3m and max. 2m (including connectors).

LENGTH



SPARROW

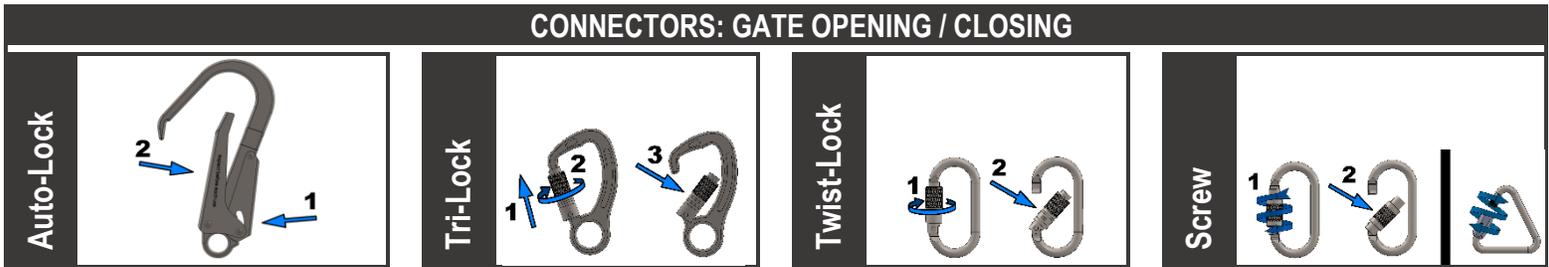
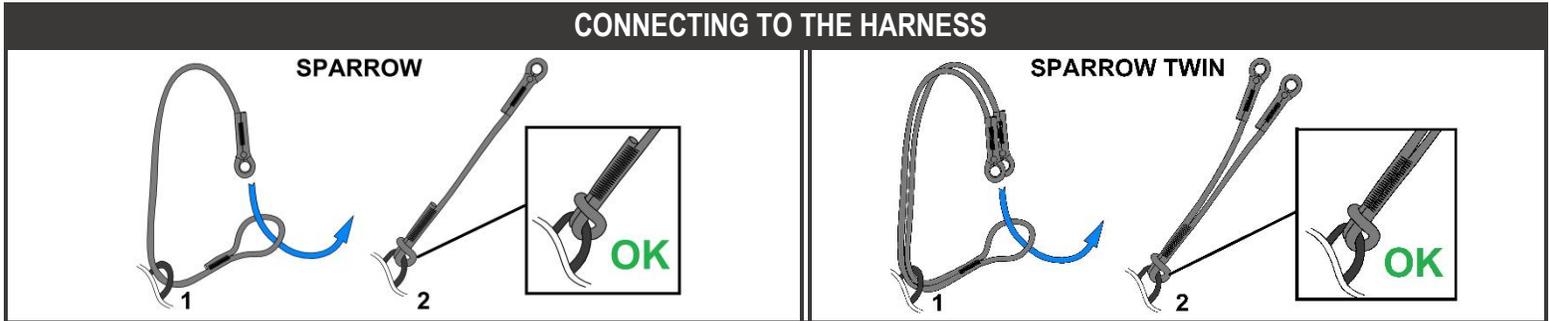


SPARROW TWIN

FIELD OF USE: These lanyards are intended for exclusive use in positioning / restraint systems, mainly in outdoor and adventure parks, for connecting to a rope glider system and for horizontal progression! **Warning! These lanyards are NOT equipped with energy absorbers and they are NOT suitable for use in fall arrest systems! It is strictly forbidden to use them for Via Ferrata, vertical progression or in any other applications where the falling distance can be greater than 0,5m!**

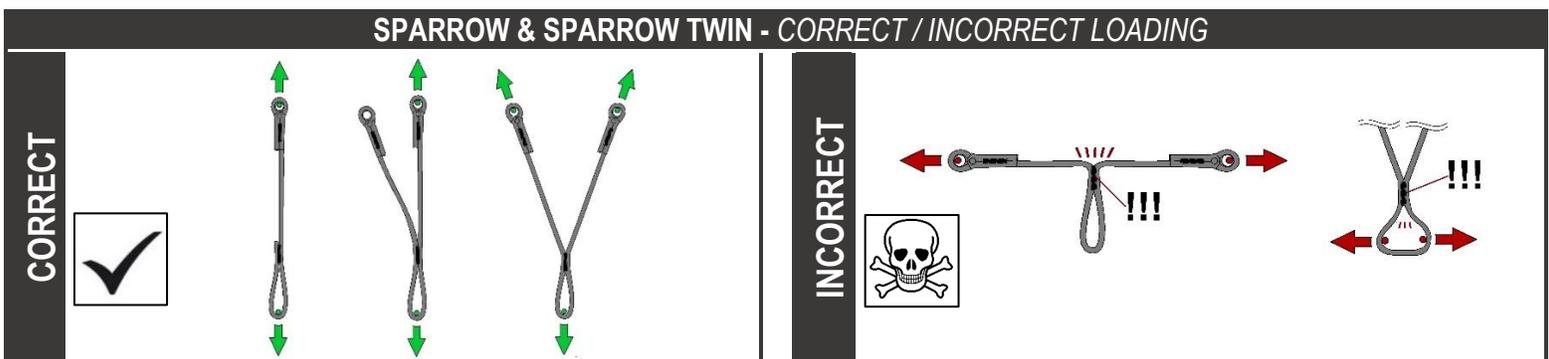
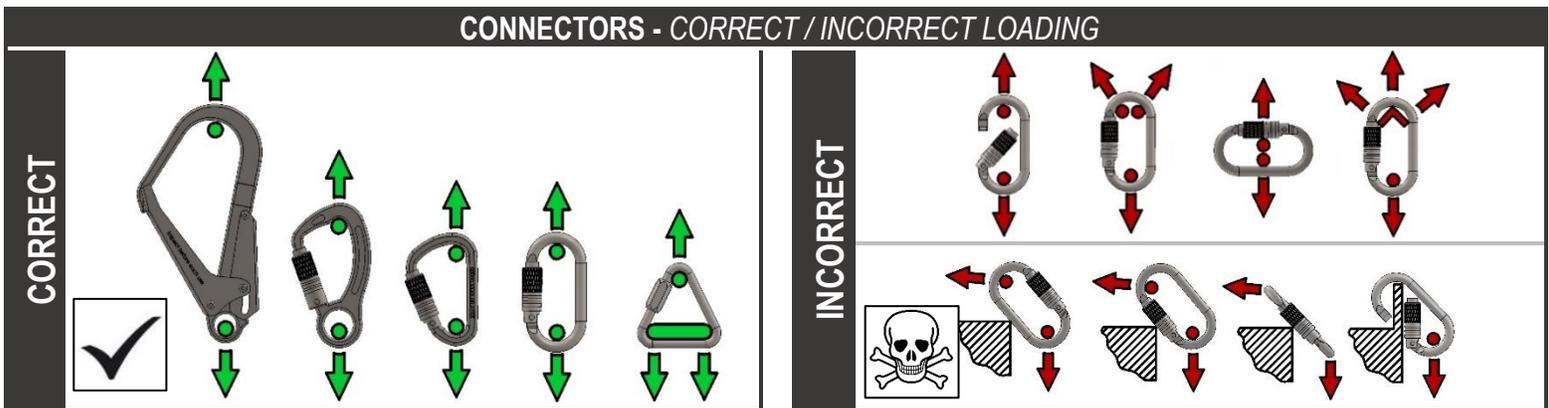
The **positioning system** allows the user to support his / her body by keeping the lanyard in tension, in such way that any free fall is prevented. The user must chose the length of the lanyard in such way that if any fall occurs, the fall distance will not exceed 0,5m! The **restraint system** prevents the user to reach areas where the risk of falling exists. The user will chose the length of the lanyard in such way that the he or she cannot reach any area where a fall from height can occur. For use in **rope glider systems** and for **horizontal progression** follow these instructions accordingly, use only with certified and compatible components specific to every system and use under direct supervision of a trained and experienced person!

These products must be used in usual environments with temperatures between -30°C and +50°C, without potentially explosive atmospheres, far away from flames, sparks or hot metal splash. Avoid contact with sharp edges, electricity, chemicals, corrosive solutions and substances, excessive heat, oils, paints or any other contaminants. The structures used for anchoring have to meet the requirements of EN 795:2012, must have NO sharp edges and must be capable to withstand minimum 12 kN for full metallic anchors and 18 kN for any other types of anchors and must NOT allow accidental disconnection of the lanyard or carabiner.



WARNING! If the lanyard is equipped with **SCREW locking** carabiners, please make sure that the gate is fully closed and tightened correctly, before using it! Note: **SCREW** locking carabiners shall NOT be used at workplaces where the user must connect/disconnect frequently! If the lanyard is equipped with **AUTO-LOCK, TRI-LOCK** or **TWIST-LOCK** carabiners, make sure that the gate is fully closed and secured before use.

Below some examples of correct / incorrect use of these lanyards and of the carabiners are presented. Please note that these are the most encountered situations in use, but a full list of all possible incorrect uses cannot be covered by this manual. Use only certified components for your system and read their instructions carefully, before use!

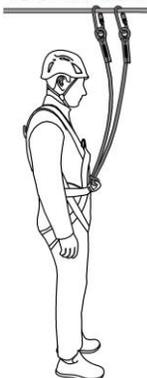


!!! APPROVED USES !!!

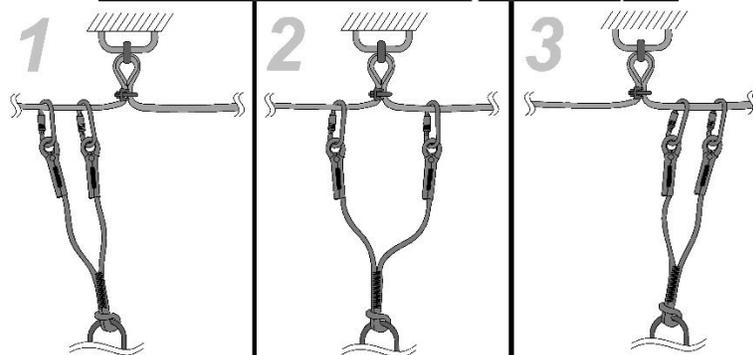
1. HORIZONTAL PROGRESSION - The lanyards can be used for moving safely in a horizontal plane (**HORIZONTAL PROGRESSION**) while having permanently one lanyard connected to an anchor line. The lanyard will be connected to the **ventral attachment point** of a certified harness (EN 813 or EN 12277). Check "CONNECTING TO THE HARNESS" section for instructions!

WARNING! The anchor line must be designed in such way that it provides enough strength, has enough free space below and it is always located above the user's head!

Always keep the lanyard taut during use! SLACK in the rope is NOT allowed!

HORIZONTAL PROGRESSION – Correct / Incorrect use**CORRECT****INCORRECT**

WARNING! For HORIZONTAL PROGRESSION a SPARROW TWIN lanyard must be used. **Always use both strings of the lanyard to pass an intermediate point!**

HORIZONTAL PROGRESSION – Passing intermediate points

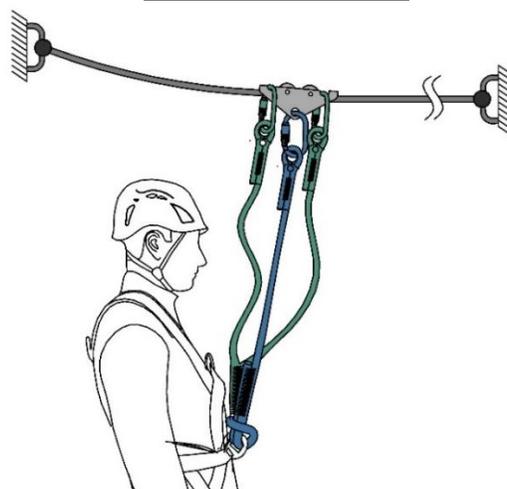
WARNING! When passing intermediate points, always keep one string connected to the anchor line!

2. ROPE GLIDER (ZIP LINE) - For use in **ROPE GLIDER SYSTEMS** two lanyards are required: 1x SPARROW (for supporting the user) and 1x SPARROW TWIN (as back-up connection, for passing intermediate points and for use in case of rescue/emergency). The TWIN lanyard must be approx. 10cm longer e.g: SPARROW (L=0,75 m)+SPARROW TWIN (L=0,85 m)

I. Attach both lanyards to the **ventral attachment point** of a certified harness (EN 813 or EN 12277). Check "CONNECTING TO THE HARNESS" section for instructions! **Warning!** Each lanyard must be connected individually to the attachment point of the harness!

Connecting SPARROW + SPARROW TWIN to the same attachment point**CORRECT****INCORRECT**

II. Connect the other end of the SPARROW lanyard to the attachment point of the glider device. The two ends of the SPARROW TWIN lanyard will be placed in the designated locations of the glider device (Check the instructions of the glider device for complete instructions regarding installation and use!).

ROPE GLIDER – Correct use

WARNING! Use only with certified and compatible components and use only under direct supervision of a trained and experienced person!

WARNING! This product is developed as a Personal Protective Equipment against Fall (PPEaF). Bringing modifications to it or assigning other uses are strictly forbidden! Each user shall use his own PPEaF as well as his own rescue equipment. **The user must know the performances and limitations of his equipment! In case of uncertainty regarding the equipment seek advice from the manufacturer or distributor!**

3. POSITIONING / RESTRAINT - The **positioning system** is used for working at heights by passing the positioning lanyard around an anchor structure (e.g. a pole, a beam) which is then connected to the lateral rings of the positioning belt (EN 358). The length and position of the lanyard must be chosen in such way that the maximum fall distance, in case of slippage, does not exceed 50cm. This system allows the user to carry out works using both hands while standing on his feet and being supported by the belt in an upright position.

The **restraint system** is used on horizontal or slightly inclined surfaces where the user carries out the work and its purpose is to limit the movement of the user in order to prevent reaching areas with fall hazard. The lanyard will be attached to one of the lateral rings and to a mobile or fixed anchor point. The length of the lanyard must be carefully chosen so that it is shorter than the distance from the anchor point to the closest fall hazard area. **WARNING!** If the risk of falling from height cannot be completely eliminated, any positioning or restraint system must always be supplemented with a fall arrest system (EN 363)! For the additional fall arrest system, suitable components must be used, including an EN 361 certified harness!

RESCUE! A rescue plan must be made before starting the work at heights or depths! It is mandatory to set up and know the specific rescue plan for every situation and to have designated personnel and appropriate means of intervention!

Repairs or any other modifications can be performed only by the manufacturer! Any repairs, modifications or additions (even minor ones) performed by anyone else are strictly forbidden, lead to the loss of the manufacturers guarantee and any responsibility related to this product!

WARNING! Before each use a visual inspection and functional test must be performed! **The equipment must be withdrawn from use if:**

1. The marking/label is missing or is unreadable.

2. **DAMAGE** has been identified (incisions, cuts, tearing, abrasions, worn seams, discoloration, hardened or thinned areas, burns, melted areas, rust, plastic

deformations) if any other abnormalities of the parts / structure have been found or if the product had suffered any changes to its original condition!

3. Contact with paints or unknown chemicals had occurred (irreversible contaminations).
4. The equipment was involved in a fall arrest or had been subjected to heavy loading.
5. The integrity of the equipment is questionable and the inspection log is incomplete or missing.
6. The equipment was in service longer than **10 years**.

The **SERVICE LIFE** * of PPE against falls, made of textile materials is 6-8 years under normal conditions, but a **maximum of 10 years** * from the date of first use. The date of the first use must be noted in the logbook, otherwise the date of manufacture is considered as the date of the first use. The **storage** of new, unused products under optimal conditions (darkness, dryness, original packaging, constant temperature, without chemical vapors, etc.) should not exceed **2 years**. * PPE that belongs to a single user, has not been used excessively and not often, has been subjected to regular checks by experts, has been found to be "safe" and recorded in the test book, has a complete product history, has not been involved in a fall, is carefully treated and cared for, have been stored in accordance with regulations, have not come into contact with oils, fats or aggressive chemicals, (attention - incomplete list) can remain in use for up to 10 years. Intensive use, heavy and demanding working conditions, incorrect application, incorrect maintenance and care can greatly reduce the service life of the equipment. Certain events, such as falls, high exposure to heat, exposure to corrosive chemicals, can limit the use of your equipment to a single time. A generally valid, binding statement about the duration of use of textile PPE cannot be made, as this depends on a large number of factors such as UV light exposure, working conditions, contact with various substances, etc. The service life of the equipment ends when one of the cases mentioned in the previous chapter occurs or when the inspector / certified expert decides this on the basis of other facts. The theoretical total service life of textile PPE against falls (Storage time + Service life) is limited to a maximum of 12 years from the date of manufacture.

STORAGE, MAINTENANCE, TRANSPORT: the equipment should be stored in a dry, cool and well-ventilated room, if possible, in its original packaging. While in storage, this PPEaF must be protected from UV radiation, solar radiation, heat, sparks, incandescent metal splash, electricity, chemicals, sharp objects, heat sources, dust, cement, oils and greases or any kind of contaminants. If necessary, the textile parts can be cleaned using warm water (30°C) then rinsed. Drying the wet equipment will be made by hanging it in well-ventilated room away from any heat source. When fully dried, the equipment can be stored accordingly in its packaging (bag or box). Transport of the equipment must be made in its protective bag or box, away from any factor that could contaminate or inflict damage.

MARKING: VERTIQUAL® lanyards are fitted with a label which contains the following elements and essential information: manufacturer (Vertiqua), name of the model and version (e.g. SPARROW), maximum length (L=...m), manufacturing date (mm/yyyy), standards/norms the product complies to (EN 354:2010), CE marking with notified body number (CE 2756), symbol for reading the instructions before use and the product's serial No.(000000). The label must be always present and readable!

PERIODIC INSPECTIONS AND CHECKS: A visual and functional check must be performed before and after each use! During use, it is important to monitor the equipment in order to identify possible damages. The equipment must be inspected **at least once every 12 months** or more often if required, depending on the working conditions and compulsory after every incident it has been involved in. Inspections can be carried out only by the manufacturer or by an authorized inspections center. **If the periodic inspections were not performed at least once every 12 months, were carried out by unqualified persons, or without strictly respecting the manufacturer's instructions, the warranty is lost and the manufacturer declines any responsibility related to the equipment!**

INSPECTION LOG: Every PPEaF is delivered with an Inspection Log. This document must be kept safely and sent along with the product for every inspection. The Log (table) contains important data regarding your equipment. The **date of first use** must be written in the Inspection Log by the user!

WARRANTY AND LIABILITY! The manufacturer offers a **24 month** warranty for this PPEaF from the date of first use. The user has the obligation to write the date of first use in the Inspection Log. If the date of first use was not filled in, the warranty period will be calculated from the manufacturing date. The warranty is applicable only for material or manufacturing defects! Damage resulting from normal wear and tear, corrosion, poor maintenance (or no maintenance at all), those resulted from carelessness, accidents, fall arrest, unauthorized repairs or modifications, wrong use of this PPEaF or any other reasons are NOT covered by the warranty! The warranty does NOT cover the springs of the carabiners as these can be damaged due to inadequate storage or improper use. Warranty claims only apply to the product. All claims by the user or any other party for the direct, indirect or any consequential damages resulting from the use of this PPEaF are excluded from guarantee and liability assumptions. Any claims in this regard are hereby expressly rejected. The user must be informed regarding the dangers of work at heights and depths. He should be aware of the risks and he has to be aware that he is the only responsible for eventual damage, accidents or even death which may result from the use of this equipment. If the user is unable to do so or if he does not have the competence to do so, he cannot use this PPEaF. VERTIQUAL Engineering SRL herewith rejects any liability claims for direct, indirect, accidental or consequential damages resulting from the use of this PPEaF (Personal Protective Equipment against Fall).

This product complies with the European PPE Regulation (**EU**) **2016/425** and the harmonized standard: **EN 354:2010**. The **EU type examination** was carried out by: INCDPM (The National Research and Development Institute for Occupational Safety-Bucharest). European notified body: NB 2756. The **EU Declaration of Conformity** can be downloaded from our website www.vertiqualsafety.com by accessing the product's dedicated section.

INSPECTION LOG			
Product:			
Owner / Company:			
Serial/Batch No:	Date of purchase:	User:	Date of first use:
Inspection date	Results of the inspection		Signature of the inspector