

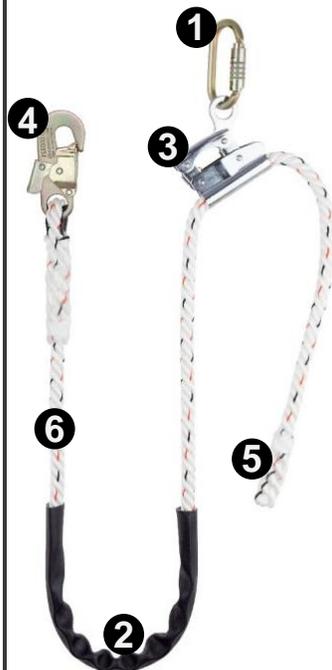
Instruction manual for work positioning lanyards certified according to EN 358:2018

FAST



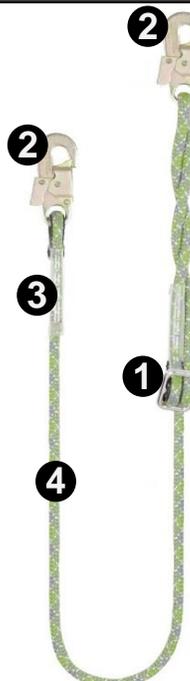
1. Carabiner 624 (or other carabiner of choice, certified acc. to EN 362 class B);
2. Protective hose;
3. Ropegrab mechanism (aluminium);
4. Carabiner 232 (or other carabiner of choice, certified acc. to EN 362 class A, T or B);
5. Sewn termination protected by a transparent sleeve;
6. Kernmantle rope, diameter 14 mm

ENDURANCE



1. Carabiner 424 (or other carabiner of choice, certified acc. to EN 362 class B);
2. Protective hose;
3. Ropegrab mechanism (steel);
4. Carabiner 0022 (or other carabiner of choice, certified acc. to EN 362 class A, T or B);
5. Spliced termination protected by a transparent sleeve;
6. Twisted rope, diameter 16 mm;

FLEXIBLE



1. Adjuster buckle;
2. Carabiner 0022 (or other carabiner of choice, certified acc. to EN 362 class A, T or B);
3. Sewn termination protected by a transparent sleeve;
4. Kernmantle rope, diameter 12 mm or 14 mm;

CLASSIC



1. Adjuster buckle;
2. Carabiner 121 (or other carabiner of choice, certified acc. to EN 362 class A, T or B);
3. Spliced termination protected by a transparent sleeve;
4. Twisted rope, diameter 16 mm;

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.

WARNING! The user must be medically fit and capable to ensure his own safety and act accordingly in possible emergency situations! Seek medical approval according to the national legislation in force!

WARNING! If the product is re-sold outside the original country of destination, the reseller must provide these instructions manual in the language of the country where the product will be used.

DESCRIPTION

The **FAST / ENDURANCE** positioning lanyards are equipped with a rope-grab mechanism (3) which allows quick and reliable adjustment of the lanyard's length. By pushing the lever of the mechanism, the toothed cam releases the rope, making it possible to move through the mechanism, in both directions. The mechanisms are provided with an anchorage eye to which the carabiner (1) is attached. The rope is protected against abrasion by the sleeve (2). The carabiner (4) is attached to the end sewn termination of the lanyard, and the opposite end (5) is closed and provides a strong and reliable end stop for the mechanism.

The **FLEXIBLE / CLASSIC** positioning lanyards are equipped with a buckle (1) for adjusting the length. The terminations of the lanyard are equipped with carabiners (2). Adjusting the length is done through the special buckle when the lanyard is relaxed.

FIELD OF USE

Work positioning & restraint lanyards belong to the category of personal protective equipment (PPEaF) and are intended to protect the user while working at heights or in depths. These lanyards can be used only with certified positioning belts according to EN 358 or other complex harnesses that integrate a positioning belt (eg: combined-full body harness according to EN 361 + EN 358 or multifunctional harnesses according to EN 361 + EN 813 + EN 358). 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.

These lanyards are intended for exclusive use in positioning systems and restraint systems. **It is strictly forbidden to use them as shock absorbing lanyards (for arresting a fall)!** The lanyards can be used by persons weighing **up to 150kg** (user + equipment).

- 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/adjust the length of the lanyard in such way that if any fall occurs, the fall distance will not exceed 0,6m! **For safety it is essential that the anchor point / structure is located at or above the waist level of the user. Keep the lanyard taut during use!**

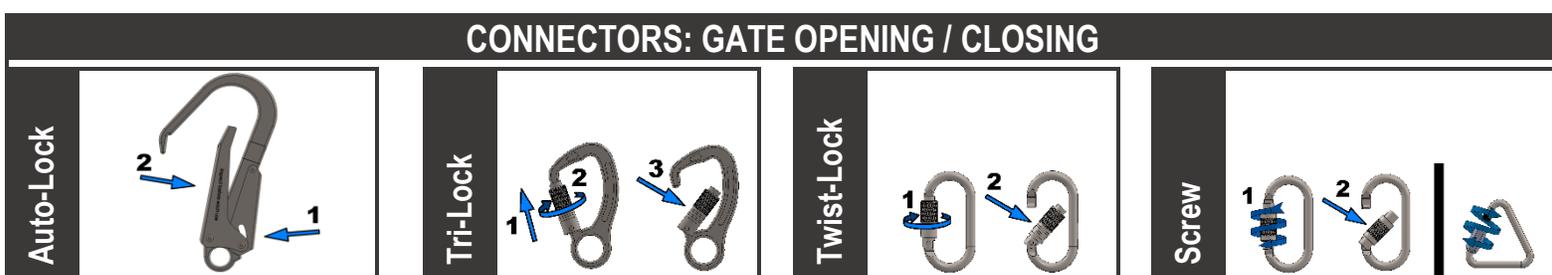
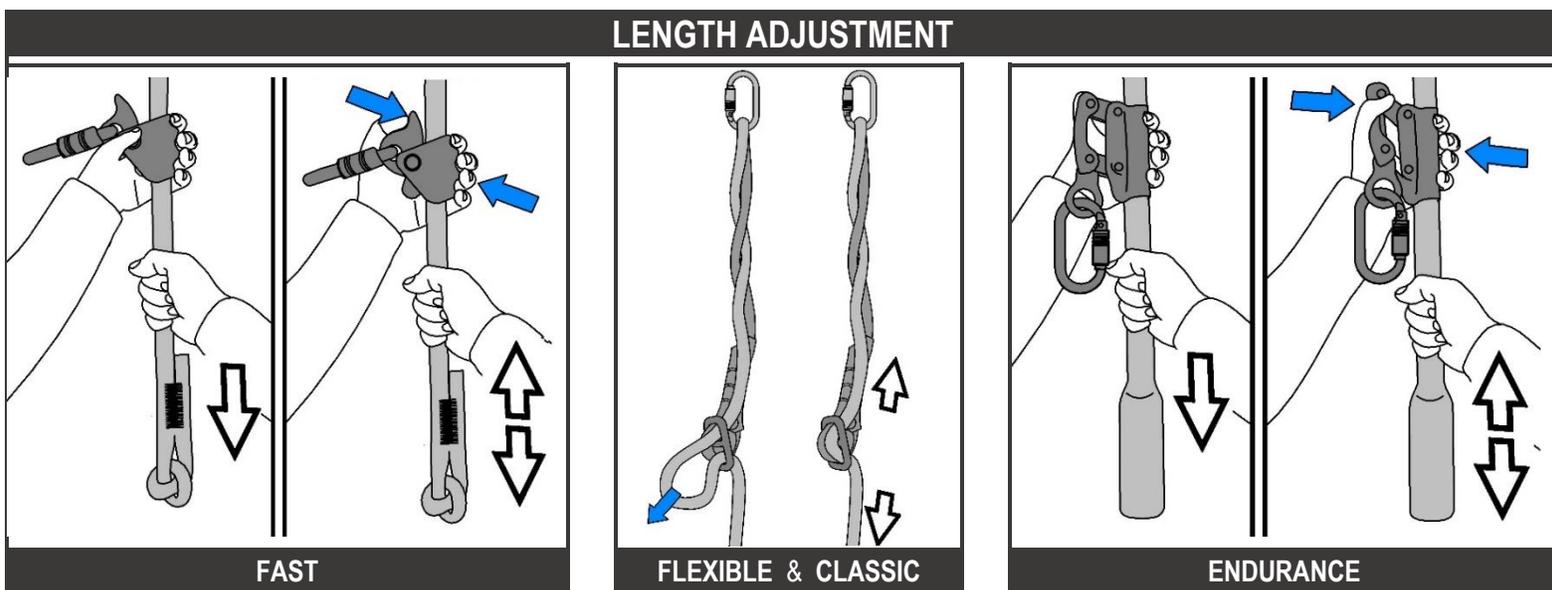
- The **restraint system** prevents the user to reach areas where the risk of falling exists. The user will chose / adjust the length of the lanyard in such way that the he or she cannot reach any area where a fall from height can occur.

WARNING! If the risk of falling from height cannot be completely eliminated, the work positioning / restraint system must always be supplemented with a fall arrest system! For the additional fall arrest system, suitable components must be used, including an EN 361 certified harness!

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.

The lanyards are equipped with length adjustment device which will allow the user to set the required length for the application. Shortening / lengthening of the lanyard should always done in safe conditions that will NOT expose the user to hazardous situations.

Depending on the model, different types of adjusting devices are equipped. The images below show how shorting / lengthening of the lanyard can be done:



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.

-The user must monitor their integrity, functionality and correct settings before, during, and after using their PPE!

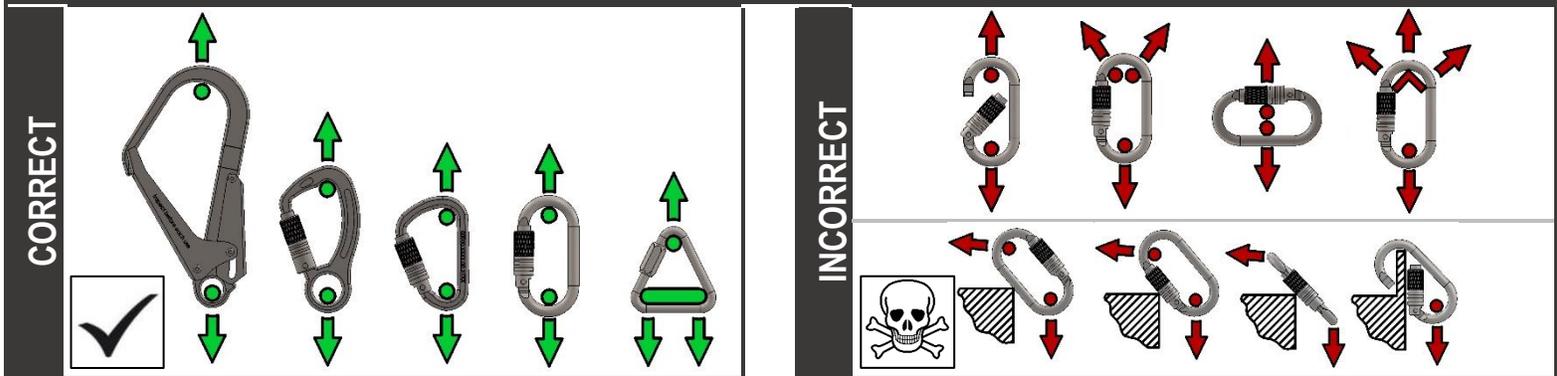
-Avoid contact of the product with abrasive edges, sharp edges, greases and oils, corrosive chemicals, heat, flames, sparks and incandescent metal splash.

-This products can be used only by trained persons! Beginners may use it only under direct supervision of trained and experienced users!

-It is forbidden to intentionally or accidentally apply mechanical shocks to these products (eg. use for material handling or securing goods during transport etc.)!

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!

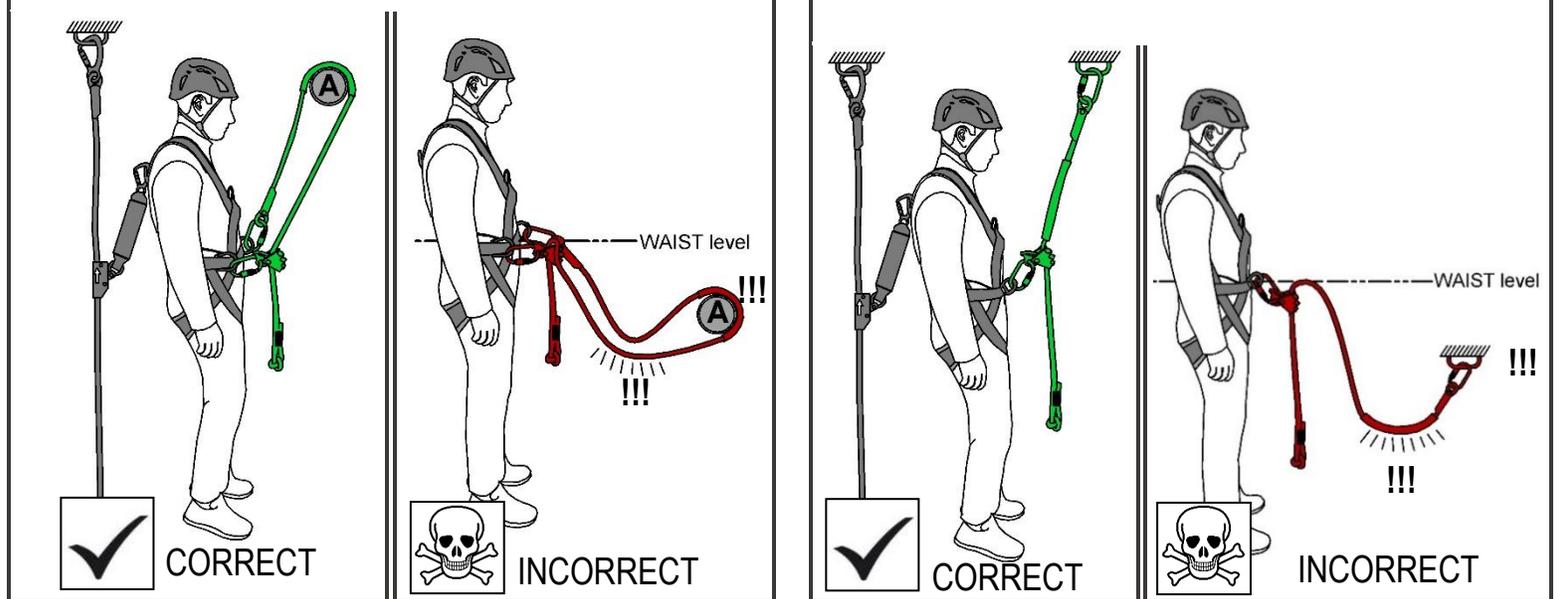
CONNECTORS: CORRECT / INCORRECT LOADING



POSITONING SYSTEM

In the **DOUBLE ATTACHMENT** mode the lanyard is passed around a suitable anchor structure and connected to the two lateral rings of the waist belt (EN 358). The anchor point should be located at or above waist level at all times! Keep the lanyard taut during use!

In the **SINGLE ATTACHMENT** mode one end of the lanyard is connected to a suitable anchor point / structure and the other end is connected to the rope access ring (EN 813) of a sit harness. The anchor point should be located at or above waist level at all times! Keep the lanyard taut during use!



WARNING! Before each use a visual inspection and functional test must be performed by the user!

Beware: damages can be inflicted without your knowledge (e.g. negligence of a coworker) and it is important that a visual check is performed before each use!

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, worn seams, discoloration, hardened or thinned areas, burns, melted areas, rust, plastic deformations) if any other abnormalities of the parts or structure have been found or if the product had suffered any changes compared 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**.

WARNING! The equipment must be immediately withdrawn from use if it was involved in a fall incident or was subjected to heavy loading! If there is any doubt regarding the condition of the equipment **DO NOT USE** it! Instead, send it to the manufacturer or to an authorized representative of the manufacturer for a professional evaluation!

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!

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® positioning & restraint lanyards are fitted with a label which contains the following elements and essential information: manufacturer (Vertiqua Engineering S.R.L), name of the model and version (e.g. FAST), maximum length (Lmax.= ... m), Maximum user weight allowed (**Max.150 kg**: user + equipment), manufacturing date (mm/yyyy), standards/norms the product complies to (EN 358:2018), European CE marking with notified body number (CE 2756), international symbol for reading the instructions before use and the product's serial number (000000). The label must be always present and readable!

PERIODIC INSPECTIONS AND CHECKS

The user must perform a visual and functional inspection of his equipment before and after each use! During use, it is important to monitor your equipment in order to identify possible damages inflicted in use, without being aware of it. 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, signature of the inspector and the results are also recorded. The **date of first use** must be written in the Inspection Log by the user!

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!

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 358:2018**. Conformity assessment and production control is carried out by European Notified Body **NB 2756** (INCDPM: Adress, 35 A, Ghencea Blv, Sector 6, Postal code: 061 692, Bucharest).

The **EU Declaration of Conformity** can be downloaded from our website www.vertiqualsafety.com by accessing the product's dedicated section.