INSTRUCTION FOR USE

⇒ This instruction for use the Energy Absorbing Lanyard shall conform to the PPE Directive 89/686/EEC requirements and with applicable standard of the PPE (ex. : EN355 and EN362,...).

⇒ Particular point coming from Directive 93/68/EEC modifying the Directive 89/686/EEC: name, address and notified body number who has done the EC type examination report shall appear in the instructions for use:

EC type examination of notified body that involved with the design stage and production control phase are performed by:

INSPEC International Ltd
56, Leslie Hough Way, Salford,
Greater Manchester, M6 6AJ,
United Kingdom (N.B. nbr 0194)

1/ IMPORTANT RECOMMENDATIONS FOR ALL Personal Protective Equipment (PPE)

Energy Absorbing Lanyards Model:
FP23 series & FP25 series

WARNING –

ANY MODIFICATION TO AN ADJUSTMENT WILL MAKE THE DEVICE DANGEROUS FOR USE.

Any dangers that may arise by the use of combination of items of equipment in which the safe function of any one item is affected by or interferes with the safe function of another is required.

1. Do not use the equipment until you have read and fully understand the instructions.
2. Any alterations or additions to the equipment without the Manufacture's prior written consent, any dangers caused by this condition during the equipment utilization process will not be the responsibility of the Manufacture.
3. Be aware of the material、width and thickness of lanyard may affect the safe equipment utilization. If necessary, please seek for the professional equipment knowledge support or Manufacture's advice.
4. As the equipment used in fall arrest system, the attachment point of the anchor device should always be positioned anytime during the utilization for safety use.
5. Equipment which is damaged or in need of scheduled maintenance must be tagged as "UNUSABLE" and removed from service. Defects, damage, excessive wear, malfunction, and aging are generally not repairable.
6. It is essential for the safety of the user that if the product is re-sold outside the original country of destination the reseller shall provide instructions for use, for maintenance, for periodic examination in the language of the country in which the product is to be used.
7. As the equipment used in fall arrest system, the anchorage point must be located above the user whenever possible during the utilization for safety use.
8. It is important for safety to verify the free space required beneath the user at the workplace before each occasion of use, so that, in the case of a fall, there will be no collision with the ground or other obstacle in the fall path.
9. The equipment shall not be used outside its limitations, or for any purpose other than that for which it is intended.
10. Proper use of fall arrest systems can save lives and reduce the potential of serious injuries from a fall. The user must be aware that forces experienced during the arrest of a fall or prolonged suspension may cause bodily injury. Consult a physician if there is any question about the user's ability to use this product. Pregnant women and minors must not use this product.
11. The equipment cannot be used by people whose health condition may influence their safety during everyday use or emergent procedures.

REMINDER –

- The user is responsible to make sure they read, understand and follow all instructions in the care and use of this device as well as receive adequate training.
- Before and during use, consideration should be given as to how any rescue could be safely and efficiently carried out.
- Use of this product is reserved for competent personnel, who have gone through the proper training or who are operating under the supervision and instruction of a competent and experienced person.
- Training should be repeated periodically and especially if any components in the system are changed.
- The training is to be done in a way that the trainee is not exposed to fall hazard.
- Whenever possible, it is strongly advised to personally attribute the PPE to an individual user.
- Disregarding the instructions described in this booklet could give rise to some serious repercussions. User is thus advised to re-read these instructions from time to time.

APPLICATION, PURPOSE, AND LIMITATION -

APPLICATION

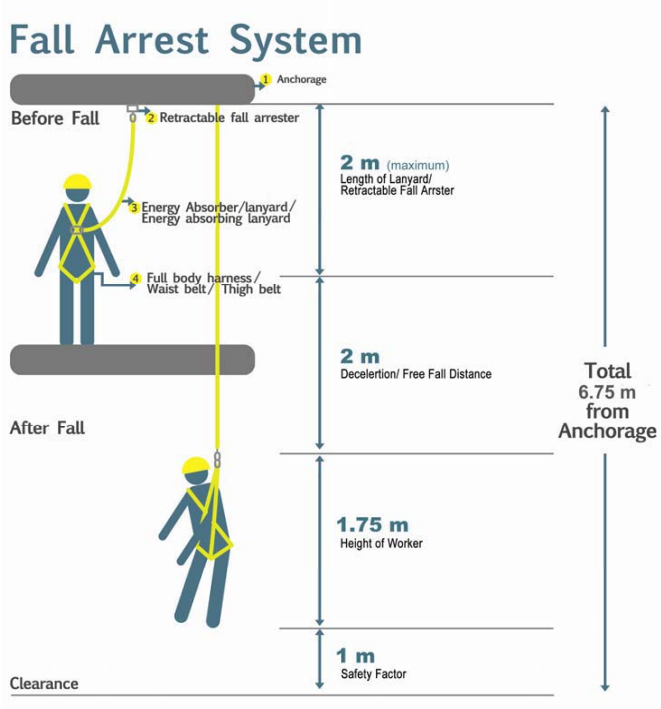
Tthe Lanyards are made incorporating an Energy Absorbing pack. They are all Fall Arrest Lanyards to EN355 for arresting a potential fall, and are designed for use as part of a fall arrest system comprising a Lanyard and compatible EN361 Harness.

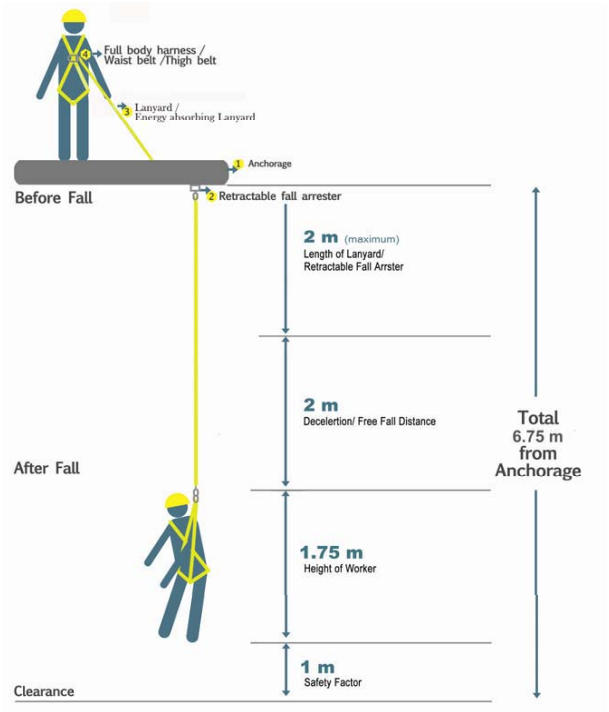
PURPOSE

The energy absorbing sigle-leg and twin-legged lanyards are intended for use as a component in a personal fall potection system. This products have been tested and certified to EN355 and EN362 under the requirements of PPE Directive.

LIMITATIONS

- Do not use this device for restraint or work positioning purpose.
- Fitted the Carabiner on the energy absorber and the Carabiner or Snap Hook on each leg. All connectors must comply with EN362.
- The Carabiner on the Energy Absorber is to be attached to the D-ring of the Full Body Harness (complied with EN361).
- Always remember that Full Body Harness is the only acceptable body holding device that can be used in a fall arrest system.
- Check that the height of the anchorage point above the workplace is compatible with the capacity of this retractable fall arrester and that sufficient clearance exists(much more than 3 m is recommended), in order to avoid collision with any structure or ground, which is compatible with the characteristics of the block in the case of a fall.
- Refer to diagram below for the suggested calculation of clearance.
  - As far as possible, the structural anchorage point should be at a height of between 1.5 and 2 metres above the feet of the user. The anchoring point must withhold a minimal resistance of 10 kN.
  - It should be aware that the suggested total distance from the anchor to the ground should not be less than 6.75 meters.
  - Check for a minimum space clearance below the user's feet as necessary, to prevent any collision with the structure or the ground (1m minimum safety factor required).





- The Energy Absorbing Lanyard is designed for one person with a combined total weight no greater than 100 kg, including clothing, tools and other user-borne objects.
- Under normal conditions of use, this prodcut is capable of arresting fully the fall of a person within the free fall distance of not exceed 2m (Refer to the above diagram), and the arrest force of less than 6 KN.
- Under no circumstances should any part of this device to be altered by users.

INSTRUCTION MANUAL –

- This notice must be translated (eventually), by the retailer, into the language of the country of use.
- For your safety, comply strictly with translations for use, verification, maintenance and storage.
- PORTWEST cannot be held liable for any direct or indirect accident occurring as a result of use other than provided for in this notice; do not use this equipment beyond its capabilities!

DESCRIPTION

The energy absorber consists of a single component with a controlled-tear strap and one or 2 lanyards depending on the model. In the event of a fall, the controlled-tear strap (energy dissipater) deploys from inside its plastic cover, breaking the fall. User safety depends on the continuous efficiency of the equipment and a clear understanding of the instruction in this user's manual.

We offer FP23 series & FP25 series as below, and the energy absorbers, lanyards and connectors have been tested and conformed to EN355 & EN362.

FP23 xx yy zz nn

FP25 xx yy zz nn

Absorber Color	Color Code (xx)	Connector Type	Connector Code	Connector A (yy)	Connector B (zz)	Total Length (including connectors)	Length Code (nn)
BLACK	01	F-15-1	01	02	01	120 CM	01
RED	02	RF-219	02	03	02	150 CM	02
YELLOW	03	F-12-01	03	04	03	180 CM	03
BLUE	04	NO-01	04				

* The Energy Absorber & Lanyard made from Nylon.

F-15-1	RF-219	F-12-01	NO-01
EN362:2004/A/T Gate Opening: 58mm Loding :22KN	EN362:2004/T Gate Opening: 18mm Loding : 22KN	EN362:2004/T Gate Opening: 17mm Loding : 20 KN	EN362:2004/B Gate Opening: 12mm Loding : 20 KN

* The Connectors made from Steel.

USE AND PRECAUTION

1. One of the energy absorber ends is linked to a harness (EN361) fastening point (dorsal or chest) and the order to the anchoring point using connectors EN362. The absorber anchoring point should be located above the user (minimum resistance: 10kN). For safety reasons before each use, make sure that no obstacle can prevent the strap unwinding normally. Check the overall arrangement limits the pendulum effect in the event of a fall and that work can be carried out so as to limit the pendulum effect, the risk and height of a fall.
2. It is recommended that each user is allocated an energy absorber. The lanyard must only be used by one person at a time. This equipment is for the sole use of people trained, skilled and in good health, or under the supervision of a trained and skilled person.
3. Warning! Certain medical condition may affect user safety; if in doubt, consult your doctor.
4. Before and during use, we recommend that you take every precaution necessary for and eventual safe rescue.
5. Check the state of the lanyard before each use, particularly no cuts in the wires and the absorber has not been activated. If you have any doubts about the state of the lanyard or after a fall, it should not be reused and/or should be returned to the distributor or his appointed representative.
6. Before every use check each unit for any damage. Inspect locking mechanism of connectors ensuring correct function and that there is no sign of damage or corrosion.
7. When connecting the carabiner or swivel snap hook, check that the locking system is in the proper place.
8. The gate opening of connector: reference to the above table.
9. Connectors fitted with a manual locking system must never be used if opened and closed by the user several times a day.
10. Never load a swivel snap hook at the exist opening gate.
11. Avoid situations where cross loading or loading on the gate can occur. Never load a swivel snap hook at the level of its clasp and avoid load the connector across its gate.
12. The length of the connector must be taken into account when used in a fall arrest system, as it will have an influence on the height of the fall.
13. Certain situations may limit the strength of the connector, especially if connected to wide straps or if rigid anchorages are passed through the carabiner above their opening point.
14. Avoid use near sharp edges, thin structure or corrosion, for they may affect the strap performance.
15. It is forbidden to add or replace any energy absorber component whatsoever.
16. Temperature use the equipment between -30℃ and 50℃ to avoid affecting its operation.
17. Chemical products remove the lanyard from service should it come into contact with chemical products, solvents or combustible materials that could affect its operation.

VERIFATION PROCEDURE

- The product has a nominal service life of three years, although its actual service life may be longer or shorter, depending on its usage and /or annual inspection results.
- The energy absorber must be checked systematically in case of doubt or after a fall and at least every year by the distributor or his authorized representative, to guarantee its state and thus the safety of the end-user.

SUITABILITY FOR USE

- The fall arrestor must be used with a fall arrester system as define in the product data sheet (see standard EN355 and EN362).
- A fall arresting harness (EN361) is the only body gripping device that may be used. It may be dangerous to create one's own fall arrester system where each safety function can interfere with one another safety function. Read the recommendations on using each component in the system before use. Therefore the product data sheet should be completed after each annual product verification.

SERVICING AND STORAGE –

During transport, keep the energy absorber in its packaging, well away from any cutting surface. Clean it with water, wipe it with a rag

and hang it up in a well-ventilated location, to let it dry naturally and away from a naked flame or heat source; follow the same procedure for components that have become damp during use. The lanyards should be stored in its packaging in a warm, dry, ventilated place, protected from sunlight, heat and chemicals.

CARE

Do not expose the Energy Absrobing Lanyard to corrosive environments for prolonged periods. Organic substances and salt water are particularly corrosive to metal parts. When working in corrosive environments, more frequent inspection, cleaning and drying of the Energy Absrobing Lanyard is required.

- The equipment would be pack with polystyrene plastic material to prevent any item damage during transportation.
- The item may be cleaned with a mild detergent solution or disinfected with a mild sterile disinfectant.
- Store in a clean dry environment avoiding corrosive fumes or chemical substances.
- The Energy Absrobing Lanyard is difficult to give a precise lifetime because it depends on factors such as the environment where it is used (for instance in a marine environment, in contact with chemicals, sand etc.) and frequency of use. If maintained and cleaned regularly and used correctly the product will give many years of service.
- The personal protective equipment shall be examined every year. The periodic examination are only to be conducted by a competent person and strictly in accordance with the manufacturer's periodic examination procedure.
- Modifications and repairs outside of PORTWEST facilities are prohibited.
- The equipment become wet, either from being in use or when due to cleaning, it shall be allowed to dry natually, and shall be kept away from direct heat.
- The requirement to check the legibility of the equipment marking during the periodic examination.
- The regular periodic examination is necessary for the equipment maintenance and when the equipment purchasing.

STORGE

- Store the lanyard system in a ventilated place away from humidity.
- Keep the device in its original packaging when no in use, or when transporting.
- Check the conditon of the strings and the stitching and rope protectors.
- At the time of Carabiner and Snap Hook connection, check that the locking system is correctly in place.
- Transport the component or system in a package to protect it from any cuts, moisture or ultraviolet light. Avoid corrosive, overheated or refrigerated atmospheres (freezing temperatures).

PERIODIC EXAMINATION –

Detailed recorded examinations should only be carried out by a competent person, appointed by the employer. Additionally, recorded interim examinations may be required where risks from harsh working environments exist which may affect safety functions of the device. These should be identified through risk assessment.

1. The Energy Absrobing Lanyard does not require any special tools and equipment for the regular periodic examination. However, it is good practice to:
2. Ensure that the periodic examination instructions for other components used in conjunction with any item are complied with European standards. These recorded examinations must be carried out at least every 12 months as a requirement of EN355. However, the frequency of periodic examination is recommended taking account of such factors as legislation, equipment type, frequency of use, and environmental conditions.
3. Periodic examination is essential for the safety of the user. This examination guarantees the efficiency and trouble-free operation of the system or component. Be sure to fill in and preserve carefully the descriptive sheet, making a note of any periodic checks, and periodic check shall be performed by competent person for periodic examination.
4. Inspect each component and subsystem of the complete system in accordance with the associated manufacturer's instructions.
5. For the Connector, the product name, unique serial number and date of manufacture will be found on the product body that marked by punching machine.
6. Always make sure the product marking is present showing both the serial number and date of manufacture and that it matches your user instructions. If the numbers are not legible on the product body or do not match the user instructions DO NOT USE.
7. Inspect the Connector function. Ensure the Snap Hook and Carabiner should completely be securely closed and locked.
8. Inspect each component and subsystem of the complete system in accordance with the associated manufacturer's instructions. No spare parts can be in place of.
9. The potential lifetime of this product is up to 3 years from the date of manufacture.
10. The actual lifetime of a product ends when it meets one of the retirement criteria listed below, or when its system use is judged obsolete.
    - Defects, damage, excessive wear, malfunction, and aging.
    - The Connector can't be locked or opened.
    - The hardware elements for deformations, fractures, cracks, corrosion, deep pitting, sharp edges, cuts, deep nicks and evidence of excessive heat or chemical exposures.
    - Inspect the Lanyard for wear, abrasion, cuts, frayed, missing or loose stitches, burns or signs of chemical attack.
    - The Energy Absorbing Lanyard or Connector has been subjected to fall arrest or impact forces.
    - you do not know its full usage history
    - it is at least 3 years old and made of plastics or textiles
    - you have any doubt as to its integrity.
11. If during the periodic examination any part is found not safe or faulty, please DO NOT use it. Defects, damage, excessive wear, malfunction, and aging are generally not repairable.
12. The actual lifetime is influenced by a variety of factors such as : the intensity, frequency, and environment of use, the competence of the user, how well the product is stored and maintained, etc.
13. In addition to the inspection before and during use, a periodic in-depth inspection must be carried out by a competent inspector at least once every 12 months. The frequency of the in-depth inspection must be governed by the type and the intensity of use.
14. To keep better track of the equipment, it is preferable to assign each piece of equipment to a unique user so that he will know its history.
15. The results of inspections should be documented in an "Equipment Record". This document must allow recording of the following details: type of equipment, model, name and contact information of the manufacturer or distributor, means of identification (serial or individual number), year of manufacture, date of purchase, date of first use, name of user, all other pertinent information for example maintenance and frequency of use, the history of periodic inspections (date / comments and noted problems / name and signature of the competent person who performed the inspection).

No repairs, modification or alteration must be carried out on this lanyard. Destroy retired equipment to prevent further use.

The above periodic inspection shall be strictly follow.

CLEANING & DISINFECTION –

The Lanyard does not require any particular maintenance. However, it is good practice to:

- Regularly clean the lanyard with plain water and let dry in the air.
- Do not use bleach, solvents, petrol, or dye as they will affect the performance of the Lanyard.
- If required, apply a mild solution of sterile disinfectant, such as 70%-75% ethyl alcohol, and allow to remain for 10 minutes for for 100% kill of vegetative organisms by sponge, mop, cloth, pressure sprayer, fogging device, portable sprayer.

The Connectors do not require any particular maintenance. However, it is good practice to :

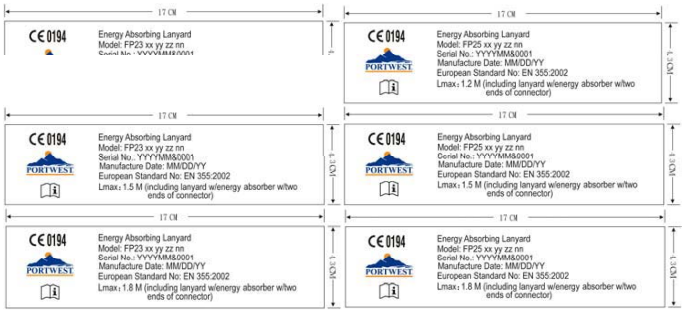
- Do not use bleach, solvents, petrol, or dye as they will affect the performance of the surface of Carabiner.
- Use a dry cloth to clean the metal part. Never use acid or alkali solvents (caustic soda). Allow components to dry in a ventilated place away from any direct flame or any other source of heat.
- Do not use any chemical cleaning agents.
- Disinfect using a disinfectant containing quaternary ammonium compounds reinforced with chlorohexidine (e.g.Savlon) in sufficient quantities to be effective. Soak the Connector for one hour at dilutions recommended for general use using clean water, not exceeding 20 degrees centigrate then rinse thoroughly with clean water, and finally use a cloth to dry it.

The above cleaning instruction shall be strictly adhere to.

LIMITATIONS OF USE –

This product complies with EN355 and EN362 “Personal protective equipment against falls from a height - Energy absorbing lanyards.” It is not intended for any other use. If unsure about the safe use of any item seek advice from a suitably trained and competent person or contact the manufacturer.

EXPLANATION OF MARKING-Energy Absorbing Lanyard



a) CE0194 – CE mark with Notified Body number.

b) PORTWEST– Manufacturer logo

c) Energy Absorbing Lanyard-Product type

d) Model: FP23 xx yy zz nn / FP25 xx yy zz nn-Product model

e) Serial No.: YYYYMM&0001- track number

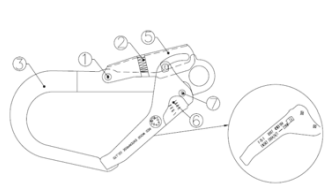
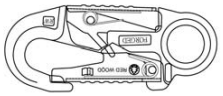
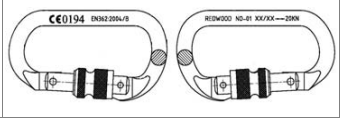
f) Manufacturer Date: MM/DD/YY -Manufacturer Date

g) European standard No: EN355-European standard

h) Lmax: 2 M –the total length should not exceed 2.0 M (including lanyard w/ energy absorber W/ two ends of connector)

i) -caution, read instructions

EXPLANATION OF MARKING-Connectors

F-15-1	RF-219
	
F-12-01	**NO-01**
	

a) CE 0194- CE mark with notified body number

b) F-15-1, RF-219, F-12-01, NO-01- Product model

c) xx/xx, 0907 - Batch number- year and month of manufacture

d) 20 KN, 22KN- static strength

e) RED WOOD ENTERPRISE CO., LTD-Manufacturer name

f) European standard no.: EN362:2004/A/T, EN362:2004/T, EN362:2004/B -European Standards/B category

g) -Manufacturer logo

h) -caution, read instructions

Notified Body involved with the design stage and involved in theproduction control phase:

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Fax : +86-591-8820 0656

RECORD OF THE ENERGY ABSORBING LANYARD

Please complete the following EQUIPMENT RECORD and keep this record for reference.

EQUIPMENT RECORD		
PRODUCT :		
Model & type/identification	Trade name :	Serial number :
Manufacturer	Address :	Tel, fax, email and website
Year of manufacture/ life expiry date	Purchase date :	Date first put into use :
User name :	Comments :	
Other relevant information(e.g. European Standard number)		
Other components suitable for use together in the fall arrest system are…...		

PERIODIC EXAMINATION				
Date	Reason for entry (periodic examination)	Defects noted, repairs carried out and other relevant information.	Name and signature of competent person	Periodic examination next due date

The personal protective equipment shall be examined at least every 12 months by a competent person authorized by the manufacturer.