

PROTEKI **C** € 0082 EN 355:2002

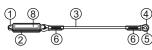
GB ENERGY ABSORBER WITH FLR LANYARD



ABM/LB200 Ref. BW 200/LB 200

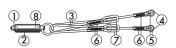


ABM/LB201 Ref. BW 200/LB 201



ABM/2LB200 Ref. BW 200/2 LB 200



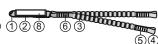




ABM/LE211 Ref. BW 200/LE211

ABM/2LE211 Ref. BW 200/2LE211

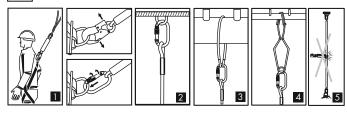


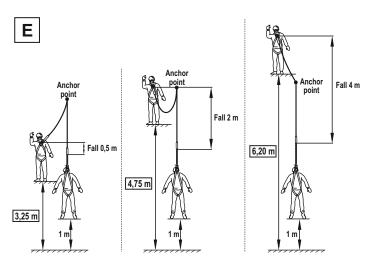












GB - NOTICE: Read and fully understand these instructions before using this equipment.

A. DESCRIPTION

The energy absorber with lanyard is a component of personal fall arrest equipment and complies with

Fall arrest system consisted of energy absorber with lanyard, attached to the full body harness (complied with EN 361) and connected to the structural anchor point (complied with EN 795) can be used as a basic personal protective equipment against falls from a height.

Caution: The total length of the energy absorber with lanyard including terminations and connectors shall not

• (e.g. connector plus lanyard plus energy absorber plus connector)

B NOMENCIATURE

Energy absorber is made of 32 mm wide polyamide webbing. Absorber is equipped with attachment loops on the endings. One of the loops is connected to the lanyard. The body of the absorber is protected by a special jacket made of a shrinkable, polyethylene tube. The lanyard can be made of:

- ø 11.4 mm aramide kernmantle rope finished with sewn loops (ABM/LB 201 FLR, ABM/LB 202 FLR).
- ø 11.4 mm aramide kernmantle rope finished on one ending with a loop adjustable by steel adjustment buckle and on the other ending with sewn attachment loop (ABM/LB200 FLR,
- 28 mm wide aramide stretchable webbing ended with sewn loops (ABM/LE211, ABM/2LE211).

Equipment is suitable for use in high temperature environments (e. g. fire-fighting exposure) - burning time below 5 seconds and can be used when performing the so-called hot works, e.g. welding, cutting

1. absorber's attachment loop; 2. energy absorber; 3. lanyard; 4. lanyard's attachment loop; 5. thimble ; 6. lanyard's seam ; 7. adjustment buckle ; 8. identity label.

C. MEANING OF THE MARKING

- A. type of the device
- B. marking of the model of energy absorber
- C. reference number of the device
- D. CE marking with identity number of the notified body controlling manufacturing of the equipment
- European standards (number/year)
- F. month/year of the device manufacture
- G. number of the manufacturing series
- H. caution: read the manual
- I. marking of the manufacturer or distributor
- J. the maximum length of the energy absorber with lanyard can't exceed 2 m

D. ASSEMBLING A FALL ARREST SYSTEM

- 1. Attach the energy absorber's connector to a frontal or dorsal attachment point of full body harness (conformed to EN 361) - [1]
- 2. Connect the lanyard's connector to the structural anchor point of resistance min. 12 kN (conformed to EN 795) placed above the user:
- directly [2]
- with a additional connector [3], [4]

The shape of the structural anchor point shall not let self-acting disconection of the device.

During use the energy absorber with double lanyard it is strictly forbidden to attach the one lanyard's connector to harness attachment element and the second lanyard's connector to structural anchor point

WARNING! NECESSARILY PROTECT THE SNAP HOOK GATE WITH THE LOCKING GEAR

The user should minimise the amount of slack in the lanyard near a fall hazard.

- The user must rule out any risk of the situation (e.g. wrapping the lanyard around neck) that during use ar arresting a fall the lanyard may be used choke hitched.
- The user should avoid interleaving the lanyard between construction elements or the situation when there is a risk of falling over the sharp edge (e.g. roof edge).
- -The energy absorber with lanyard can be used in temperatures from -30°C to 50°C.
- Two separate lanyards each with an energy absorber should not be used side by side (i.e. parallel).
- The free lanyard of a double (twin tail) lanyard combined with energy absorber should not be clipped back

E. REQUIRED FREE CLERANCE BELOW WORKING LEVEL FOR WORKER PROTECTED WITH **ENERGY ABSORBER WITH LANYARD**

It is necessary to guarantee the minimum clearance below the feet of the user, in order to arrest the fall before collision with the structure or ground. Check below drawing to verify the clearance depending on the position of the anchor point.

F. PERIODIC INSPECTIONS

Safety harness must be inspected at least once every 12 months from the date of first use. Periodic inspections must only be carried out by a competent person who has the knowledge and training required for personal protective equipment periodic inspections. Depending upon the type and environment of work, inspections may be needed to be carried out more frequently than once every 12 months. Every periodic inspection must be recorded in the Identity Card of the equipment.

G. MAXIMUM LIFESPAN OF THE EQUIPMENT

The maximum lifespan of the harness is 10 years from the date of manufacture.

ATTENTION: The harness maximum lifetime depends on the intensity of usage and the environment of usage. Using the harness in rough environment, marine environment, contact with sharp edges, exposure to extreme temperatures or aggressive substances, etc. can lead to the withdrawal from use even after one use.

H. WITHDRAWAL FROM USE

The harness must be withdrawn from use immediately and destroyed when it has been used to arrest a fall or it fails to pass inspection or there are any doubt as to its reliability.

I THE ESSENTIAL PRINCIPLES FOR USERS OF PERSONAL PROTECTIVE EQUIPMENT AGAINST FALLS FROM A HEIGHT:

- personal protective equipment shall only be used by a person trained and competent in its safe use
- personal protective equipment must not be used by a person with medical condition that could affect the safety of the equipment user in normal and emergency use.
- a rescue plan shall be in place to deal with any emergencies that could arise during the work.
- being suspended in PPE (e.g. arresting a fall), beware of suspension trauma symptoms.
- to avoid symptoms of suspension trauma, be sure that the proper rescue plan is ready for use. It is recommended to use foot straps.
- it is forbidden to make any alterations or additions to the equipment without the manufacturer's prior written consent.
- any repair shall only be carried out by equipment manufacturer or his certified representative.
- personal protective equipment shall not be used outside its limitations, or for any purpose other than that for which it is intended.
- personal protective equipment should be a personal issue item.
- before use ensure about the compatibility of items of equipment assembled into a fall arrest system. Periodically check connecting and adjusting of the equipment components to avoid accidental

loosening or disconnecting of the components.

- it is forbidden to use combinations of items of equipment in which the safe function of any one item is affected by or interferes with the safe function of another.
- before each use of personal protective equipment it is obligatory to carry out a pre-use check of the equipment, to ensure that it is in a serviceable condition and operates correctly before it is used.
- during pre-use check it is necessary to inspect all elements of the equipment in respect of any damages, excessive wear, corrosion, abrasion, cutting or incorrect acting, especially take into
- in full body harnesses and belts buckles, adjusting elements, attaching points, webbings, seams, loops;
 - in energy absorbers attaching loops, webbing, seams, casing, connectors;
- in textile lanyards or lifelines or guidelines rope, loops, thimbles, connectors, adjusting element, splices:
- in steel lanyards or lifelines or guidelines cable, wires, clips, ferrules, loops, thimbles, connectors, adjusting elements;
- in retractable fall arresters cable or webbing, retractor and brake proper acting, casing, energy absorber, connector;
- in guided type fall arresters body of the fall arrester, sliding function, locking gear acting, rivets and screws, connector, energy absorber:
- in metalic components (connectors, hooks, anchors) main body, rivets, gate, locking gear acting.
- after every 12 months of utilization, personal protective equipment must be withdrawn from use to carry out periodical detailed inspection. The periodic inspection must be carried out by a competent person for periodic inspection. The periodic inspection can be carried out also by the manufacturer or his authorized representative.
- in case of some types of the complex equipment e.g. some types of retractable fall arresters the annual inspection can be carried out only by the manufacturer or his authorized representative.
- regular periodic inspections are the essential for equipment maintenance and the safety of the users which depends upon the continued efficiency and durability of the equipment.
- during periodic inspection it is necessary to check the legibility of the equipment marking. Don't use the equipment with the illegible marking.
- 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 and for repair in language of the country in which the product is to be used.
- personal protective equipment must be withdrawn from use immediately when any doubt arise about its condition for safe use and not used again until confirmed in writing by equipment manufacturer or his representative after carried out the detailed inspection.
- personal protective equipment must be withdrawn from use immediately and destroyed (or another procedures shall be introduced according detailed instruction from equipment manual) when it have been used to arrest a fall.
- a full body harness (conforming to EN 361) is the only acceptable body holding device that can be used, in a fall arrest system.
- in full body harness use only attachment points marked with a capital letter "A" to attach a fall
- the anchor device or anchor point for the fall arrest system should always be positioned, and the work carried out in such a way, as to minimise both the potential for falls and potential fall distance. The anchor device/point should be placed above the position of the user . The shape and construction of the anchor device/point shall not allowed to self-acting disconnection of the equipment. Minimal static strength of the anchor device/point is 12 kN. It is recommended to use certified and marked structural anchor point complied with EN795
- it is obligatory to verify the free space required beneath the user at the workplace before each occasion of use the fall arrest system, so that in the case of a fall, there will be no collision with the ground or other obstacle in the fall path. The required value of the free space should be taken from instruction manual of used equipment.
- there are many hazards that may affect the performance of the equipment and corresponding safety precautions that have to be observed during equipment utilization, especially: - trailing or looping of lanyards or lifelines over sharp edges, - any defects like cutting, abrasion, corrosion, - climatic
- exposure, pendulum falls, extremes of temperature, chemical reagents, electrical conductivity.

 personal protective equipment must be transported in the package (e.g.: bag made of moistureproof textile or foil bag or cases made of steel or plastic) to protect it against damage or moisture.
- the equipment can be cleaned without causing adverse effect on the materials in the manufacture of the equipment. For textile products use mild detergents for delicate fabrics, wash by hand or in a machine and rinse in water. For energy absorbers use only a damp cloth to wipe away dirt. It's forbidden to immerse energy absorbers into the water. Plastic parts can be cleaned only with water. When the equipment becomes wet, either from being in use or when due cleaning, it shall be allowed to dry naturally, and shall be kept away from direct heat. In metallic products some mechanic parts (spring, pin, hinge, etc.) can be regularly slightly lubricated to ensure better operation
- personal protective equipment should be stored loosely packed, in a well-ventilated place, protected from direct light, ultraviolet degradation, damp environment, sharp edges, extreme temperatures and corrosive or aggressive substances.
- Using the harness in connection with personal protective equipment agains falls from a height must be compatible with manual instructions of this equipment and obligatory standards:
 - EN353-1, EN353-2, EN355, EN354, EN360 for the fall arrest systems;

 - EN362 for the connectors; EN1496, EN341 for rescue devices;
 - EN795 for anchor devices.

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Notified body for EU type examination according to PPE Regulation 2016/425: Central Institute for Labor Protection National Research Institute, ul. Czerniakowska 16, 00-701 Warsaw. Poland

Notified body for control production:

APAVE SUD EUROPE SAS (no 0082) - CS 60193 - F13322 MARSEILLE CEDEX 16 - FRANCE

IDENTITY CARD

It is the responsibility of the user organisation to provide the identity card and to fill in the details required. The identity card should be filled in before the first use by a competent person, responsible inthe user organization for protective equipment. Any information about the equipment like periodic inspections, repairs, reasons of equipment's withdrawal from use shall be noted into the identity card by a competent person in the user organization. The identity card should be stored during a whole period of equipment utilization. Do not use the equipment without the identity card.

MODEL AND TYPE OF EQUIPMENT	
SERIAL/BATCH NUMBER	
REFERENCE NUMBER	
DATE OF MANUFACTURE	
DATE OF PURCHASE	
DATE OF FIRST USE	
USER NAME	

PERIODIC INSPECTION AND REPAIR HISTORY CARD					
DATE OF INSPECTION	REASON FOR INSPECTION OR REPAIR	DEFECTS, CONDITION NOTED REPAIRS CARRIED OUT	NAME AND SIGNATURE OF COMPETENT PERSON	NEXT INSPECTION DATE	