SAFETY CLEREANCE - REQUIRED FREE DISTANCE BELOW WORKPLACE (CRL) FOR WORKER PROTECTED WITH THE ENERGY ABSORBER WITH LANYARD

Required free distance (safety clerance CRL) below workplace depends on location of anchor point and must be calculated according below scheme.



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 ANY INFORMATION ABOUT THE EQUIPMENT LIKE PERIODIC INSPECTIONS, REPAIRS, REASONS OF EQUIPMENT'S WITHDRAWN FROM USE SHALL BE NOTED INTO THE IDENTITY CARD BY A COMPETENT PERSON. THE IDENTITY CARD SHOULD BE STORAGED DURING A WHOLE PERIOD OF EQUIPMENT UTILIZATION. DO NOT USE THE EQUIPMENT WITHOUT THE IDENTITY CARD. ALL RECORDS IN THE IDENTITY CARD CAN BE FILLED IN ONLY BY A COMPETENT PERSON

<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	IDENTI	TY CARD	
MODEL AND TYPE OF EQUIPMENT		REF. NUMBER	
SERIAL NUMBER		DATE OF MANUF.	
USER NAME			
		DATE OF BUITTING	

DATE OF PURCHASE

HASE	INTO OPERATION	
DEDIODIC EXAMINA		LISTODY

	FERIODIC EXAMINATION AND REFAILT HISTORY								
	DATE	REASON FOR ENTRY PERIODIC EXAMINATION OR REPAIR	DEFECTS NOTED, REPAIRS CARRIED OUT AND OTHER REVELANT INFORMATIONS	NAME AND SIGNATURE OF COMPETENT PERSON	PERIODIC EXAMINATION NEXT DUE DATE				
1									
2									
3									
4									

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Notified body, at which the European certification was performed and which supervises the production of the equipment: APAVE SUDEUROPE SAS - BP 193 -13322 MARSEILLE CEDEX 16 - FRANCE

Instruction Manual ||||| Read carefully the manual C € 0082 EN 355:2002 AW170/LB 100, AW170/LB 101, AW170/LB 100 before use

the equipment

The energy absorber with lanyard is a component of personal fall arrest equipment and complies with EN355. 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 exceed 2 m (e.g. connector plus lanyard plus energy absorber plus connector).

CONSTRUCTION

AW170 energy absorber is made of 50 mm wide polyamide webbing. The lanyards are made of: LB100 - 12 mm diameter polyester rope, LB101 and LB102 - 10.5 mm diameter polyester rope. The body of the absorber is protected by a special cover made of a heat shrinkable. polyethylene transparent tube. The length of the lanyard is specyfied by order (Ref. AW170/LB101 XX, where xx - total length of device).





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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.

ATTENTION! The energy absorbers can be equipped only with certified (according to EN362) connectors.

LIFETIME

The energy absorber with adjustable lanyard can be used maximum 5 years calculating from the date of the equipment's first issuing for operation. After 5 years of operation the device must be withdrawn from use and discarded - physically destroyed so its further, accidental use is impossible.

The lenergy absorber with adjustable lanyard must be withdrawn from use and discarded - physically destroyed, if it has been involved in arresting a fall. Withdrawal from use shall be carried out by a person responsible in the plant for protective equipment.

CONTENT OF THE DEVICE IDENTITY LABEL



A. type of the device

B. model marking

C. reference number of the device

D. CE marking with identity number of the notified body controlling manufacturing of the equipment (the article 11)

E. European standard (number/year) F. month/year of the device manufacture G device serial number H. caution: read the manual before use

I. marking of the manufacturer or distributor

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):
- directly [2]
- with an additional connector [3], [4]. The length of an additional connecting component must be consider during calculating the safety clerance below working location.

ATTENTION:

- The shape of the structural anchor point shall not let self-acting disconection of the device.
- The user should minimise the amount of slack in the lanvard near a fall hazard.
- The user must rule out any risk of the situation (e.g. wrapping the lanvard around neck) that during use ar arresting a fall the lanvard may be used choke hitched.
- The user should avoid interleaving the lanvard between construction elements or the situation when there is a risk of falling over the sharp edge (e.g. roof edge).
- NOTES: In determining the space under the workplace required to arrest the fall, consider the length of lanyard as an additional element that extends the distance for arresting a fall.
 - The total length of the absorber with lanyard and connectors and fasteners shall not exceed 2 m.
 - The absorber with lanvard 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).
 - It is permissible to use the safety lanyard without a shock absorber only as a rope that restricts (prevents) the worker from the area at risk of a fall.

FUNDAMENTAL RULES FOR USING PERSONAL PROTECTIVE EQUIPMENT

- personal protective equipment should be used only by people trained in operating it.
- · personal protective equipment cannot be used by people whose health condition may influence their safety during everyday use or emergency procedures.
- there must be a rescue operation plan which can be used whenever needed.
- it is forbidden to perform any modifications of the equipment without the written consent of the manufacturer.
- any repairs of the equipment may be performed only by its manufacturer or an authorised representative of the manufacturer.
- personal protective equipment must be used in conformity with its operational purpose.
- personal protective equipment is considered personal equipment and should be used by a single person only.
- make sure that all elements of the equipment that constitute the fall prevention system are properly mated prior to use. Perform periodical inspections of connections and mating of equipment in order to avoid unintentional loosening or disconnecting.
- it is forbidden to use protective equipment if one of its elements is hampered by another during operation.

- all parts of the fall prevention equipment must be in accordance with appropriate regulations and equipment operational instructions and binding standards:
 - EN 361 for full body harnesses

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- EN 353-1, EN 353-2, EN 354, EN 355, EN 360, EN 362 for fall arresting systems
- EN 795 for equipment anchor points (permanent anchor points)
- EN 358 for work positioning systems
- carry out a careful inspection of personal protective equipment prior to each separate use in order to check its condition and operation. Inspections must be performed by the user.
- such inspections should check all equipment elements with particular attention paid to: any defects, excessive wear, corrosion, points of tearing, cuts and improper operation. Particular attention must also be paid to each individual device:
 - full body harnesses and work positioning belts: buckles, adjustment elements, fastening points (snap hooks), slings, seams, loops;
 - energy absorbers: hitch loops, slings, seams, body and connectors:
 - lanyards and textile guides: lanyards, thimbles, connectors, adjustment elements, plaits;
 - lanyards and steel guides: lanyards, wires, clamps, loops, thimbles, connectors, adjustment elements;
 - retractable type fall arresters: lanvards or slings, correct operation of winding mechanism and locking mechanism, body, shock-absorber, connectors
 - guided type fall arresters: device body and its correct movement along the guide, operation of locking mechanism, rollers, bolts and rivets, connectors, safety shock-absorber;
 - connectors (snap hooks): load-bearing body, riveting, main catch, operation of locking mechanism,
- · personal protective equipment must be withdrawn from use and undergo a complete periodical inspection at least once a year (after 12 months of use). Periodical inspection must be carried out by a qualified person responsible for periodical inspections of safety equipment in a given place of work. Periodical inspections must be also carried out by the equipment manufacturer or an authorised representative of the manufacturer. Such an inspection should check all equipment elements with particular attention paid to: any defects, excessive wear, corrosion, points of tearing, cuts and improper operation (see the previous point).
- If protective equipment has a complex structure, for example retractable type fall arresters, periodical inspections should be carried out only by the equipment manufacturer or its authorised representative. The date of the subsequent inspection shall be specified after the periodical inspection has been completed.
- · regular periodical inspections are essential in terms of equipment condition and safety of users only fully operational equipment is able to provide safety
- make sure that all labels on protective equipment (elements of this equipment) are legible while performing a periodical inspection.
- all information concerning protective equipment (name, serial number, date of purchase and date of first operation, user name, information concerning repairs and inspections and withdrawal from use) must be included in the Operation Sheet for a particular device. The factory where equipment is stored is responsible for making entries in the Operation Sheet. The Sheet should be completed by the person responsible for safety equipment in a given place of work. Equipment without a properly completed Operation Sheet cannot be used.
- if equipment is exported to other countries, the provider must equip it with operational and maintenance instructions as well as information concerning periodical inspections and repairs in the language of the country where the equipment is going to be used.
- personal protective equipment must be immediately withdrawn from use if there are any doubts concerning its condition or operational correctness. Equipment can be reused after it has undergone a complete inspection carried out by the manufacturer and written authorisation for reuse has been hauzzi
- if personal protective equipment was used to prevent a fall, it must be withdrawn from use and physically destroyed.
- a full body harness in accordance with EN 361 is the only accepted device for keeping a body in the personal protective equipment against falls from a height.
- fall arresting systems can be connected only to full body harness attachment points (buckles, loops) marked with the capital letter "A".
- anchoring points (equipment) of fall personal protective equipment systems should have stable structure and their position should reduce the possibility of falling and minimise the range of a free fall. The equipment anchoring point should be located above the users work position. The shape and structure of the equipment anchoring point must provide a durable connection and prevent any random disconnection. It is recommended to use certified and marked equipment anchoring points in accordance with EN 795.
- it is required to inspect the free space under the work-place on which personal protective equipment against falls form a height is going to be used in order to eliminate the possibility of hitting any objects or lower planes while stopping a fall. The amount of free space under the work-place is specified in the operational instructions of the protective equipment to be used.
- while using the device, pay special attention to hazardous situations which may influence equipment operation and the safety of users, including in particular:
 - kinking and rubbing of lanyards on sharp edges;
 - pendulum (swing) falls:
 - current conductivity:
 - any damage such as cuts, wear, corrosion:
 - extreme temperature impact:
 - negative impact of weather conditions; - impact of aggressive substances, chemicals, solvents, acids,
- personal protective equipment must be transported in packaging which protects it against damage or water, for example in bags made of impregnated material or in steel or plastic containers or boxes.
- personal protective equipment must be cleaned and disinfected in order to avoid damaging the material (raw material) it is made of. Clean textile materials (slings, lanyards) with cleaning agents intended for soft materials. It can be cleaned manually or washed in machines. It must be carefully rinsed. Plastic elements can only be cleaned with water. Equipment which becomes wet during cleaning or while in operation must be carefully dried in natural conditions, away from heat sources. Metal parts and mechanisms (springs, hinges, catches etc.) can be periodically greased in order to improve their operation.
- personal protective equipment should be stored in loose packaging in well-ventilated dry rooms and protected against the impact of light, UV radiation, dust, sharp objects, extreme temperatures and caustic substances.



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