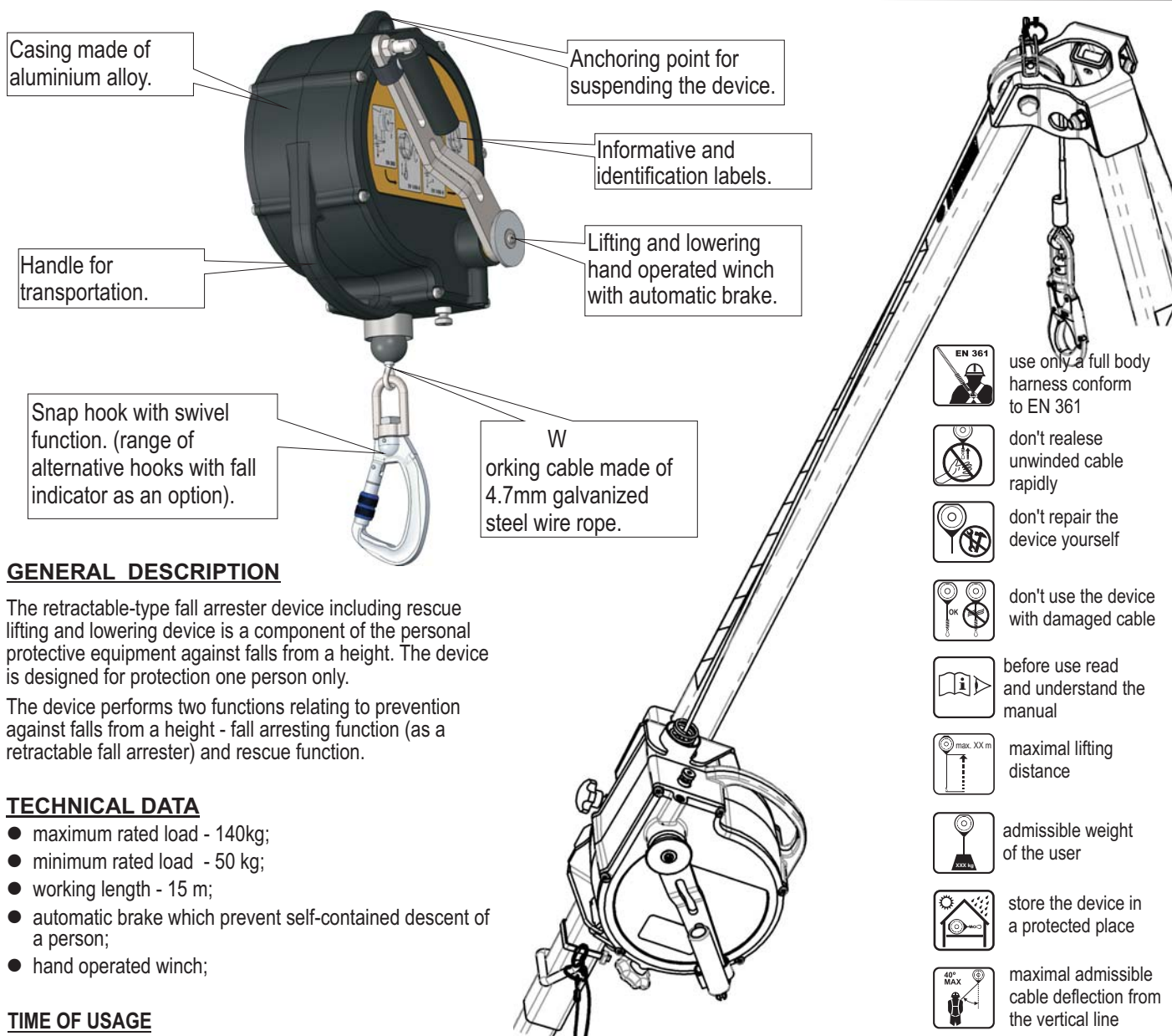


EN 360:2002
EN 1496:2017 class B

Reference number:

FBR1RC3/150

Read and understand the manual
before use the equipment



GENERAL DESCRIPTION

The retractable-type fall arrester device including rescue lifting and lowering device is a component of the personal protective equipment against falls from a height. The device is designed for protection one person only.

The device performs two functions relating to prevention against falls from a height - fall arresting function (as a retractable fall arrester) and rescue function.

TECHNICAL DATA

- maximum rated load - 140kg;
- minimum rated load - 50 kg;
- working length - 15 m;
- automatic brake which prevent self-contained descent of a person;
- hand operated winch;

TIME OF USAGE

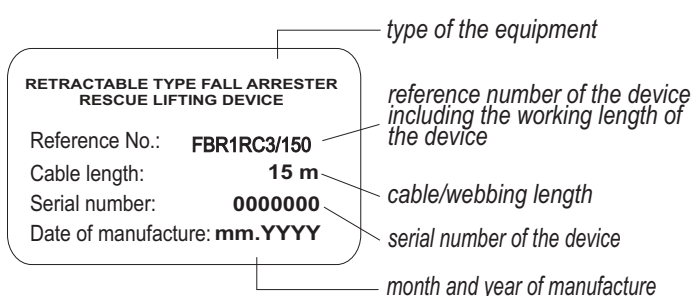
The FBR1RC3/150 device can be used for 10 years

RELATIVE STANDARDS AND CERTIFICATION

- 1) EN360:2002 - Equipment usage as a retractable type fall arrester. Covered by the EC type certificate.
- 2) EN1496:2006 type B - Equipment usage as a rescue lifting device.

The Notified Body involved with EC type examination and in the production control phase: APAVE SUDEUROPE SAS, CS 60 193, 13322 Marseille, France.

MARKING OF THE DEVICE



- use only a full body harness conform to EN 361
- don't release unwinded cable rapidly
- don't repair the device yourself
- don't use the device with damaged cable
- before use read and understand the manual
- maximal lifting distance
- admissible weight of the user
- store the device in a protected place
- maximal admissible cable deflection from the vertical line
- Inspect the device before each use
- range of operating temperatures
- check locking before each use

CE 0082 — CE mark and notified body number inspecting

ZERO — device manufacturer or distributor



Month and year of the manufacturer's next inspection.
Don't use the device after this date.

Attention: Before the first use mark the date of the next inspection (date of first use +12 months)

EN 360:2002 — relative standard numbers
EN 1496:2017 class B — and year of parution; class of the device

CRW300 UTILIZATION RULES FOR PERSONAL PROTECTION ACC. TO EN360

For personal protection purposes the FBR1RC3/150 may be installed on any structural element or on range of tripods listed in this manual. The device may be used in vertical position (suspended) or installed on tripod's leg [see **UTILIZATION WITH A TRIPOD**].

Anchor device or anchor point should always be positioned, and the work carried out in such a way as to minimise both the potential fall and potential fall distance. The structural anchor point should be placed above the user's position, should have stable structure and its shape shall not allow to self-acting disconnection. The minimal strength of the structural anchor point should be not less than 12kN. It is recommended to use certified and marked structural anchor point or device, conform to EN795 standard. Connecting the fall arrester to a structural anchor point should be done by joining the arrester handle to a structure with the aid of a connector or sling complying with EN362 or EN795 standards (fig.2-1).

A full body harness conform to EN361 should be applied for user's body keeping during employment the EN360 function. The FBR1RC3/150 lanyard should be connected only to full body harness fastening points (buckles,

FBR1RC3/150 UTILIZATION RULES FOR RESCUING ACC. TO EN1496

For rescuing purposes, the device may be installed on any structural element (suspended in vertical orientation) or on range of tripods listed in this manual.

The FBR1RC3/150 may be attached to a stable structural element of minimal strength not less 12kN. The device connection to the structural anchor should be done with the aid of a connector or sling complying with EN362 or EN795 standards (fig.2-1). The FBR1RC3/150 may be attached to a tripod's head (suspended in vertical orientation) or installed on tripod's leg. [see **UTILIZATION WITH A TRIPOD**]

A recommended body holding device for a rescuee are: (1) an EN1497 rescue harness or (2) an EN361 full body harness. The FBR1RC3/150 lanyard should be connected to the

loops) marked with the capital letter "A" (fig.2-2). A connection between device and the harness attachment point should be done with the aid of FBR1RC3/150 lanyard's connector.

A free space beneath the user must be verified 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.

When the device is installed in the vertical line above the user the minimal clearance distance below working level shall be 1,5 m.

When the cable of the retractable fall arrester is deflected from vertical line a pendulum effect occurs during fall arresting. In order to minimise the pendulum effect the cable deviation angle from vertical shall never exceed 40°. In practical use, in order to keep within the 40° declination angle, it is recommended that user should operate within the horizontal distance from the unit "I" not greater than 1/2 "v". The clearance distance below working level "z" must be greater than 1,5 m+ horizontal distance "I"

harness fastening points (buckles, loops) placed above the user's centre of gravity. The connection should be done with the aid of the FBR1RC3/150 lanyard's connector.

During the rescue process, there should be direct or indirect visual contact or other means of communication with the rescuee at all times.

The lifting / lowering function is for rescue purposes only and not for loads.

The lifting / lowering function of the device may be applied both for vertical orientation and on the tripod installation.

The device lowering function is only intended to lower a person over a maximum distance of 2m.

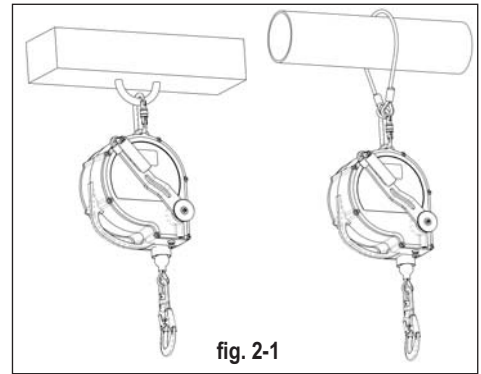


fig. 2-1

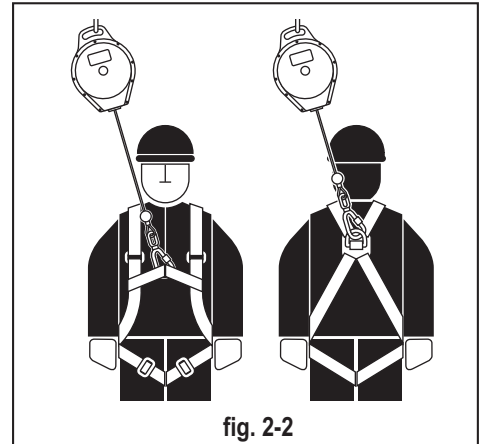


fig. 2-2

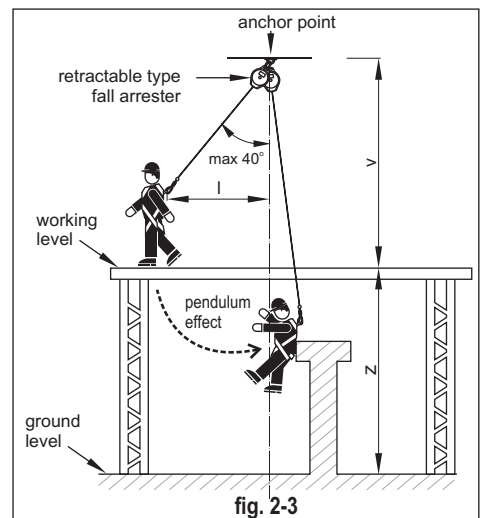


fig. 2-3

SWITCHING BETWEEN EN360 AND EN1496 FUNCTION

Only one of the EN360 or EN1496 functions of the device may be applied at the same time. To change the function, the operation described on the fig.: 2-4 and 2-5 should be done. In particular, to change from EN360 to EN1496 function, pull out the locking pin "1" and next pull out the crank axle "2" (fig. 2-4). Then, in the consequence of cranking, the device cable is moved up or down, under control.

The switching from EN360 to EN1496 function may be done especially when the FBR1RC3/150 have arrested a fall and there is necessity to rescue of the user. In order to change the EN1496 function to EN360 pull out the locking pin "1" and next push in the crank axle "2" inwards (fig. 2-5). Then the device will act as a retractable fall arrester.

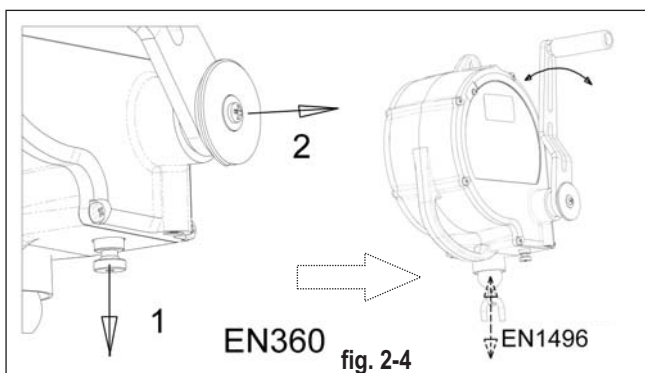


fig. 2-4

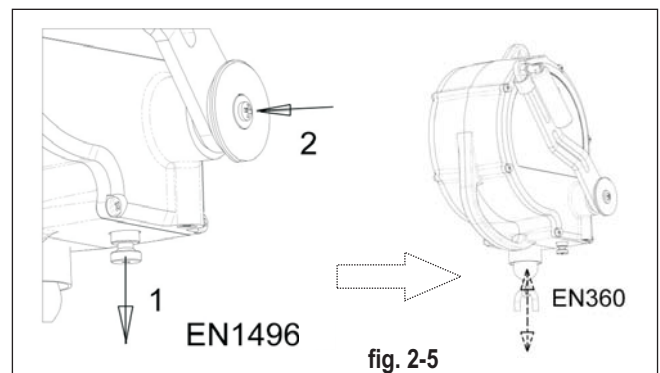
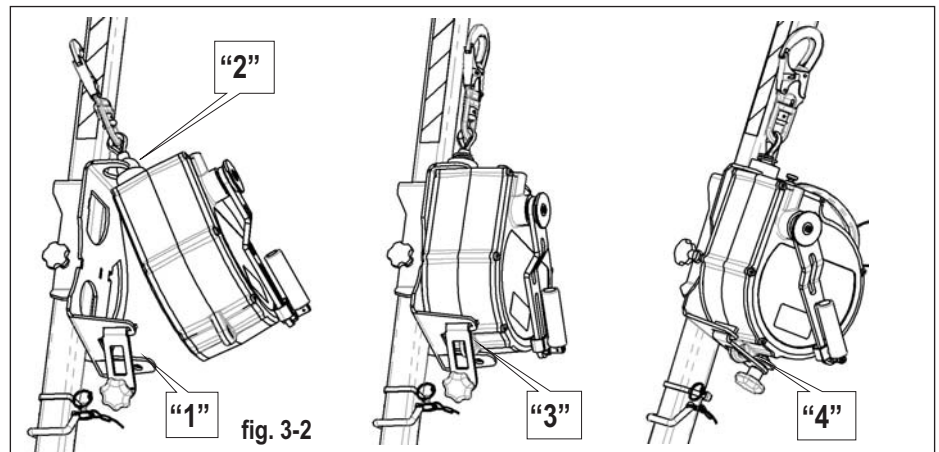
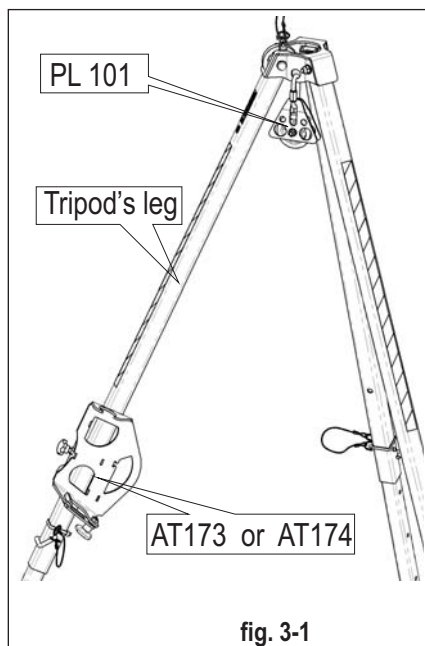


fig. 2-5

UTILIZATION WITH A TRIPOD



		TM6	TM7 + PL101	TM9 + PL101	TM9-L + PL101	TM9-W	TM10 + PL101	TM12 + PL101	TM12-2 + PL101	TM13
FBR1RC3/150	connector EN362	●	●	●	●	●	●	●	●	●
	+ AT173			●	●	●				
	+ AT174	●						●	●	●

The FBR1RC3/150 device may be used together with range of PROTEKT's tripods (see table). The FBR1RC3/150 may be installed on the tripod's leg with the aid of adapters: AT173 / AT174 (fig. 3-1) or suspended to tripod's head (with the aid of EN362 connector). For utilization with some tripods the pulley PL101 will be necessary (see table).

The way of the FBR1RC3/150 mounting into AT173 / AT174 adapter is described on the fig. 3-2. Unscrew and open the adapter's locking plate - step "1". Insert the FBR1RC3/150 cable sleeve into adapter's opening - step "2". Place the FBR1RC3/150 anchoring eye into the adapter's fork - step "3". Secure the unit with the aid of the adapter's locking plate - step "4". After that, unwind the FBR1RC3/150 cable from the device and belay on the pulley PL101 or tripod's pulley.

GENERAL RULES OF UTILIZATION FOR PERSONAL PROTECTION ACC. EN360 AND FOR RESCUE ACC. EN1496

- The device must not be used by a person with medical condition that could affect the safety of the equipment user in normal and emergency use.
- The device and associated equipment shall only be used by a person trained and competent in its safe use.
- A rescue plan shall be in place to deal with any emergencies that could arise during the work.
- 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.
- The equipment shall not be used outside its limitations, or for any purpose other than that for which it is intended - presented in this manual and relative standards.
- 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 the device, a pre-use check should be carried out to ensure that it is in a serviceable condition and operates correctly. In particular, inspect physically all visually accessible elements of the equipment in respect of any damages, excessive wear, corrosion, abrasion, cutting or incorrect acting. Especially in the device - cable retracting and locking function and legibility of the product marking should be checked.
- The device must be withdrawn from use immediately when: (1) any doubt arise about its condition for safe use or (2) was engaged for arresting a fall. The device mustn't be used until a person competent for device inspection confirm in writing its usable condition after carried out the detailed inspection.
- The following hazards and environmental factors may affect the

performance of the device: -trailing or looping of device lanyard over sharp edges,- pendulum falls,- temperature below (-30)°C and above (+50°C),- corrosive chemical agents,- electrical energy;- dust laden and greasy environment. A corresponding safety precautions should be observed during the device utilization in order to avoid improper operation.

- The device should be transported loosely packed, in such a way that is protected against: mechanical damages, contact with aggressive chemicals and wet.
- 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.
- Regular periodical inspections are essential in terms of equipment condition and safety of users. Only fully operational equipment is able to provide safety. The device must be withdrawn from use and undergo a complete periodical inspection and maintenance, at least once a year (after 12 months of use). The inspection must be carried out by the equipment manufacturer or an authorised representative of the manufacturer. Such an inspection should check all equipment elements and functions according valid producer Service Manual. The date of the subsequent inspection should be specified as a consequence of the inspection.
- The factory where equipment is stored/ used is responsible for keeping the Operation Sheet for a particular device. The Sheet should include at least: the device name, serial number, date of purchase and date of first operation, user name, information concerning repairs and inspections and withdrawal from use. 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.

CLEANING

External surface of the FBR1RC3/150 casing and the wire rope lanyard can be cleaned with a wet cloth. Do not use any acid or basic solvents. Cable devices leave to dry in the unwound state. The cable lanyard can be slightly lubricated with machine oil.

STORAGE

The FBR1RC3/150 device should be stored in a dry, ventilated, room temperature and free of aggressive chemicals places. Before the first usage the device must be stored in manufacturer package.

IDENTITY CARD

of a personal protective equipment

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 only by a competent person responsible for protective equipment.

The identity card should be filled in before the first use of the equipment.

Any information about the equipment like: periodic inspections, repairs, reasons of equipment's withdrawn from use shall be noted.

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

REF. NUMBER

SERIAL NUMBER

DATE OF MANUFACTURE

DATE OF PURCHASE

DATE OF FIRST USE

USER NAME

Zero Advanced Height Safety
Head Office, PBI Height Safety Ltd
PO Box 39048, Harewood 8545
10 Holt Pl, Harewood 8053
Christchurch, New Zealand

P: +64 3357 0093 F: +64 3360 2199
Freephone: (NZ) 0800 357 003 (AUST)
1800 421 608
E: info@zero4heightsafety.com
www.zero4heightsafety.com

PERIODIC EXAMINATION AND REPAIR HISTORY					
	DATE	REASON FOR SERVICING / REPAIR	CONDITION OF DEVICE AFTER SERVICING	NAME AND SIGNATURE OF COMPETENT PERSON	DATE OF NEXT EXAMINATION
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					