



TECHNICAL CLIMBING EQUIPMENT



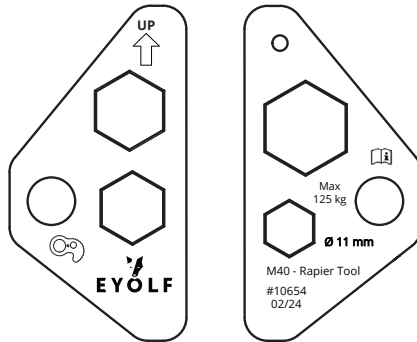
Rapier Work Pos. Lanyard
one person 125kg

Made with:

Rope with Wolfsbight: MBS 22kN

Rapier Tool - Rope Grab: WLL 4kN

Connector: MBS Spine 30kN

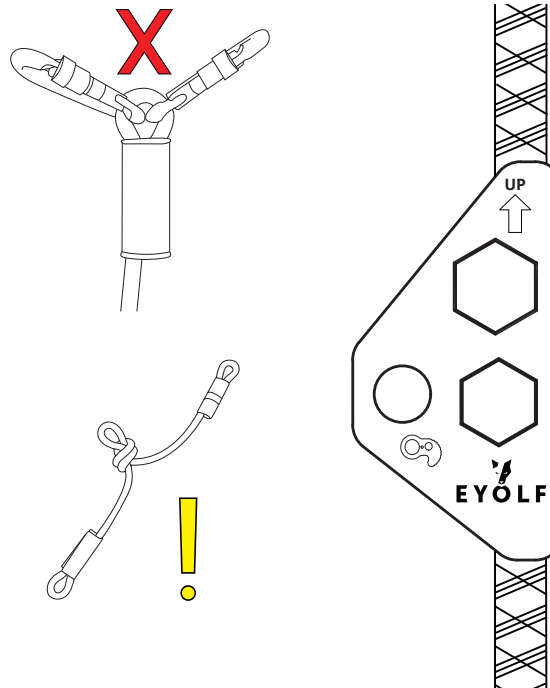
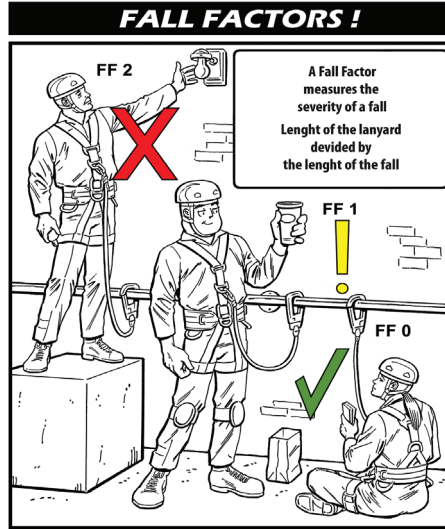


<p>Eyolf Inc. 191 Gregson Court Fergus ON N1M 2W8 CANADA</p>	<p>Tel: +1 519 787 1581 Email: info@eyolf.ca Web: www.eyolf.ca</p>
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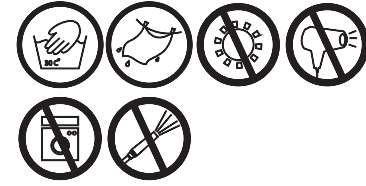
Document: B32 Rapier Repl. Rope rev2

Rapier Replacement Rope

B32-2RP Rapier Replacement Rope 2m
B32-3RP Rapier Replacement Rope 3m
B32-5RP Rapier Replacement Rope 5m



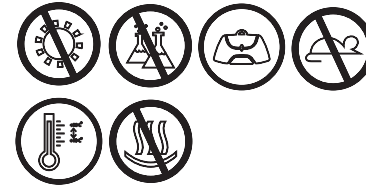
Maintenance



Important info



Storage



Inspection & repairs



Questions



Personal protective equipment against falls from a height. General requirements for instructions for use, maintenance, periodic examination, repair, marking and packaging as per EN 365:2004

Thank you for using an Eyolf product. We have done everything possible to ensure that the information provided in this manual is accurate at the time of publication. However, we do not guarantee that this information will remain up to date, as many products and techniques change over time.

Mountaineering, climbing, caving, working at height and other related activities are inherent dangerous due to outside factors and hidden risks. Not understanding, taking precautions and eliminating these risks can lead to serious injuries and death.

If in doubt do not use the product!

Contact us if you have any questions or concerns.

Warning

Medical condition

It should be understood that working at height and the use of equipment to do so, involves a certain amount of physical and mental exertion. Certain medical conditions are a definite contra-indication to the safe use of the equipment and working at height.

Training

Training and assessment of competency are essential before use of this product. Users must be aware of the limitations, precautions and the dangers of misuse.

Risk assessment - rescue plan

A risk evaluation and a quick response rescue plan should be in place prior to any activities at height. For instance that, if the risk assessment carried out before the start of work shows that loading in the case of a use over an edge is possible, appropriate precautions should be taken. Also to deal with any emergencies that could arise during the work/exercise. Relying upon a local emergency rescue team is not a rescue plan and could get you in severe trouble as they might not be capable or take too long to perform a rescue. Have a suitable rescue plan in place!

Repairs

Do not make any alternations or additions to the product without the manufacturer's prior written consent. Repairs shall only be carried out in accordance with manufacturer's procedures. Without consent any repair or alterations should be done by the manufacturer.

Intended use

The product has been tested for specific use, do not use the product other than indicated without the consent of the manufacturer.

The Rapier Lanyard is specifically designed to be used in a work positioning device. The Rope used is the thermocore rope to provide you the best protection available. Still use additional caution to prevent cutting of the rope.

Do not climb and chafe with the lanyard, instead only use it for work positioning and therefore being in one spot.

PPE

PPE stands for Personal Protective Equipment and in case of this product this means it should be provided to an individual user.

Strengths

Strengths quoted are when the product is tested new and are in accordance with the manufacturers test methods or to the appropriate standard. Any weights and measurements are approximate.

Compatibility

Make sure that each item in an assembly can be used together and work as a system. Compatibility needs to be checked prior to use. Check individual manuals for each item and see if they can be used together.

Safe use

When working at height or other related activities such as rope access: never rely on a single piece of equipment always make sure you have an equal redundant back-up system.

Multiple Loading

Do not subject the hook to multiple forces, which could cause hook body deflection resulting in gate failure.

Adding a connector to the stitched loop.

Do not clip in an extra connector, as the stitching won't hold!

Sharp edges should be avoided at all times. If it cannot be avoided proper precautions should be taken.

Do not fall into the slings directly without any energy absorbance.

Minimize a fall at all times, check your fall factors and the equipment your using to see if it can survive the impact. See drawing on fall factors.

Use in extreme environment

Use of any PPE in extreme environments can be dangerous. It is important to do appropriate testing before the use of our products in environments such as extreme cold or high temperatures (working temperatures are -30 degrees up to 60 degree Celsius), chemicals, dust, sand and other foreign materials, electrical power, grinding and chafing should be avoided, if you have any questions contact us and we can help you determine the effects.

Inspection

An examination should be carried out before the product is put into service.

Periodic examinations should takes place at least once a year, taking into account factors such as legislation, equipment type, frequency of use, and environmental conditions.

A periodic exam should be carried out by a competent person.

For complex items such as self retractable lifelines please contact us for further details.

Before each use visually inspect to ensure the product is in serviceable condition and operates correctly. If any compromises are found do not use the product and retire it. If the product has been used to arrest a fall, withdrawn from use immediately! Do not use again until, in writing, a competent person says it is acceptable for use.

A pre-use check by the user may not be applicable if the user is under supervision of a competent person or in the case it is used for emergency use which have been pre-packed or sealed by a competent person.

When carrying out an inspection pay attention to the following items:

Check the label / marking (visible, legible, age)

Check webbing (cuts, burns, wear, chemical marks, crushed, other damage)

Check stitching (cut, worn, coloured or disordered threads)

Check attachment points (deformation, cracks, wear, corrosion, marks)

Check O-ring and connectors (deformation, cracks, wear, corrosion, marks)

Check compatibility of connector

Check condition of protective components

Maintenance

Always keep the product clean and dry. Any excess moisture should be removed with a clean, dry cloth and then allowed to dry naturally in a warm room away from direct heat. Rinse in clean cold water. If still soiled wash in clean warm water (max. 40°C) with a soft detergent (within pH range of 5.5 to 8.5). Rinse properly in clean cold water and if needed to disinfect use a solution of water with alcohol. Do not use bleach!

Follow these instructions, if in doubt about the disinfecting method please contact us for further details.

Lubrication

When lubrication is needed a silicon or Teflon based spray can be used. Do not excessively spray the lubricant over the buckle or gate. Wipe off any excess and protect any webbing or rope from being sprayed.

Storage - Transportation

After cleaning, store unpacked in a cool, dry, and dark place away from direct sunlight, as UV will cause damage to the webbing over time, excessive heat sources, sharp edges, vibration or other possible causes of damage. Do not store when wet or in a damp area >70%. If a long shelf life is required it is advisable to store in a moisture proof package, like a polyethylene bag.

Lifespan

This is difficult to estimate but we advise as follows: Do not use more than ten years after the date of manufacture. Assuming you have used the correct storage, the working life can vary from a ten year span to a single use in extreme circumstances (e.g. highly chemical environment, serious fall, etc.). UV light including sunlight will reduce the working life.

Anchoring

Any fall arrest anchorage used should be able to withstand a force of 22kN when not certified or withstand at least two times the Maximum Arrest Force when engineered. Do not create slack in the system and avoid any pendulum effect / swing during a fall. Ideally the user should be attached to the anchor as vertically as possible. For work positioning, restraint and rescue we advise the anchor at least hold 12kN of force for every person/device attached to it. (Load sharing is an option)

When connecting to an anchor device or structure use a suitable form of connector complying with EN 362, either with a shock absorbers, complying with EN 355, a lanyard, complying with EN 354 or sling and carabiners depending on the situation you are in. Follow the standard EN 795 for anchoring.

Harness Connection Point

Connect the lanyard to the harness preferably to the sternal attachment point. When not possible attaching to the ventral attachment point is allowed as long as falls are impossible or there is a proper energy absorbance in the system, such as a dynamic rope system. For fall arrest equipment, such as adding an energy absorber to the lanyard the right connection point is the Sternal or Dorsal attachment point, indicated with the letter A on a full body harness complying with EN 361. This full body harness is the only type of harness suitable for being used in a fall arrest system.

Fall clearance

It is important to keep in mind that the flight path is clear from any obstacles when using a fall arresting system. It is essential 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.

Calculating the total fall clearance

The fall clearance is the distance required to safely arrest a fall. It is the distance from the anchor to the ground.
 Step 1 – calculate the Free Fall (F)
 Step 2 – determine from the label how much the shock absorber deploys (D)
 Step 3 – determine the stretch of the harness (H)
 Step 4 - add a safety factor of 2m (S)
 Step 5 - add all figures together to get the clearance (C)

$$C=F+D+H+S$$

Fall Factor

A fall factor is an expression of the seriousness / severity of a fall. The fall factor is calculated based on how much distance can be fallen, divided by the length of rope or lanyard used in a system. A fall factor 2 is dangerous and could be lethal!

Falling

It should be clear that falling should be avoided at all times. Where fall arrest systems are to be used, make sure you understand the system so that the work carried out is done in a way to minimize any potential fall. Keep anchor points above the user, use only a full body harness with a dorsal D-ring as an attachment, and make sure you have a fall clearance. It is also important to avoid any pendulum effect during a fall as a sideward fall is unpredictable. With our Y-lanyard it is advised to minimize the amount of slack near a fall hazard. When adjusting the length of a lanyard to avoid the risk of fall, the user should not move into an area where there is a fall hazard.

OUR ADVICE: DO NOT FALL!

Markings and/or symbols

On our label you will find:
 Product name, Product number (example B20) and assembly:
 I = single lanyard or Y = Y style lanyard
 E6 stands for 6kN Maximum Arrest Force
 4 or 6 for length of lanyard
 SH for snap hook and H for tower hook
 DOM (date of Manufacture) in year and month
 Serial # - Individual serial # or batch #
 CE mark, which stands for "Conformité Européenne" ("European Conformity").
 EN 355 is the European standard to which the product is certified.

Country of destination

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 instruction for use, for maintenance, for periodic examination and for repair in the language of the country in which the product is to be used.

Supervision

Under certain circumstances where a person is temporarily using a PPE against falling a competent and/or trained person could supervise the user.

Read the manual and keep it

Keep the user instructions/information accessible as a permanent record on- and off-site. Keep a copy of the manual with the product at all times.

Warranty

Equipment offered by Eyolf Inc. are warranted against factory defects in workmanship and materials for a period of three years from date of installation or use by the owner, provided that this period shall not exceed three years from the date of manufacturing (see label on product). Upon notice in writing, Eyolf Inc. will promptly repair or replace all defective items. Eyolf Inc. reserves the right to elect to have any defective item returned to its plant for inspection before making a repair or replacement. This warranty does not cover equipment damages resulting from abuse, damage in transit, or other damage beyond the control of Eyolf Inc. This warranty applies only to the original purchaser and is only one of applicable to Eyolf products, and is lieu of all other warranties, expressed or implied.

YEAR 9 INSPECTION RECORD DATE: _____ RESULT: _____ DATE NEXT INSPECTION: _____ INSPECTOR SIGNATURE: _____	YEAR 10 INSPECTION RECORD DATE: _____ RESULT: _____ DATE NEXT INSPECTION: _____ INSPECTOR SIGNATURE: _____	Reason for entry inspection or repair Defects noted, repairs carried out and other information: _____ _____ _____
YEAR 7 INSPECTION RECORD DATE: _____ RESULT: _____ DATE NEXT INSPECTION: _____ INSPECTOR SIGNATURE: _____	YEAR 8 INSPECTION RECORD DATE: _____ RESULT: _____ DATE NEXT INSPECTION: _____ INSPECTOR SIGNATURE: _____	
YEAR 4 INSPECTION RECORD DATE: _____ RESULT: _____ DATE NEXT INSPECTION: _____ INSPECTOR SIGNATURE: _____	YEAR 5 INSPECTION RECORD DATE: _____ RESULT: _____ DATE NEXT INSPECTION: _____ INSPECTOR SIGNATURE: _____	YEAR 6 INSPECTION RECORD DATE: _____ RESULT: _____ DATE NEXT INSPECTION: _____ INSPECTOR SIGNATURE: _____
YEAR 1 INSPECTION RECORD DATE: _____ RESULT: _____ DATE NEXT INSPECTION: _____ INSPECTOR SIGNATURE: _____	YEAR 2 INSPECTION RECORD DATE: _____ RESULT: _____ DATE NEXT INSPECTION: _____ INSPECTOR SIGNATURE: _____	YEAR 3 INSPECTION RECORD DATE: _____ RESULT: _____ DATE NEXT INSPECTION: _____ INSPECTOR SIGNATURE: _____

INSPECTION RECORD OWNER: Address:	Product:
	Model:
Serial #:	
DoM:	
Date of Purchase:	
First use:	
Eyolf Inc. PO Box 418 Ferris, ON N1W 3E2 Canada Tel: +1 519 787 1881 Email: info@eyolf.ca	

