

EXO / EXO AP

Emergency personal descent system including a rope with sewn terminations (7.5 mm diameter).
Système individuel de descente d'urgence incluant une corde aux extrémités cousues (diamètre 7,5mm).

WARNING / ATTENTION

Activities involving the use of this equipment are inherently dangerous. You are responsible for your own actions and decisions.

Before using this equipment, you must:
- Read and understand all Instructions for Use.
- Get specific training in its proper use.
- Become acquainted with its capabilities and limitations.
- Understand and accept the risks involved.



FAILURE TO HEED ANY OF THESE WARNINGS MAY RESULT IN SEVERE INJURY OR DEATH.

Les activités impliquant l'utilisation de cet équipement sont par nature dangereuses. Vous êtes responsable de vos actes, de vos décisions et de votre sécurité.

Avant d'utiliser cet équipement, vous devez :
- Lire et comprendre toutes les instructions d'utilisation.
- Vous former spécifiquement à l'utilisation de cet équipement.
- Vous familiariser avec votre équipement, apprendre à connaître ses performances et ses limites.
- Comprendre et accepter les risques induits.



LE NON-RESPECT D'UN SEUL DE CES AVERTISSEMENTS PEUT ÊTRE LA CAUSE DE BLESSURES GRAVES OU MORTELLES.

PETZL.COM



Warning symbols
Panneaux d'alertes



PETZL
F-38920 Croles
Cicex 105A
PETZL.COM
ISO 9001
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Sustaining our Community
Au service de la Communauté
FONDATION-PETZL.ORG

NFPA CERTIFICATION FOR EXO / EXO AP ESCAPE SYSTEM

MEETS THE FIRE ESCAPE SYSTEM AND DESCENT CONTROL DEVICE REQUIREMENTS OF NFPA 1983, INCORPORATED IN THE 2022 EDITION OF NFPA 2500. DO NOT DISASSEMBLE.



MEETS NFPA 2500 (1983), 2022 ED. E (ESCAPE USE) MBS 13.5 kN

NFPA 2500 (1983)-2022 edition requires fire escape systems to be labeled with "Do Not Disassemble". The connector, descent control device and rope in the EXO system are also certified according to NFPA 2500 (1983) 2022. If necessary, the rope or Am'D connector can be replaced following Petzl's instructions.

This descent control device has passed the manner of function and holding load tests using the following rope: PETZL TECHNORA, MAT8592 or MAT8503, 7.5mm

After removing the Instructions for Use from the equipment, make a copy of it and keep the original as part of a permanent record that includes the usage and inspection history for the equipment. Keep the copy of the Instructions for Use with the equipment and refer to it before and after each use. Additional information regarding auxiliary equipment can be found in NFPA 1500 and NFPA 1858 and NFPA 1983, incorporated in the 2022 edition of NFPA 2500.

CERTIFICATION NFPA POUR EXO / SYSTÈME D'ÉVACUATION EXO AP

CONFORME AUX EXIGENCES DE LA NFPA 1983, INCORPORÉE DANS L'ÉDITION 2022 DE LA NFPA 2500, POUR LES SYSTÈMES D'ÉVACUATION INCENDIE ET LES APPAREILS DE CONTRÔLE DE DESCENTE. NE PAS DÉMONTER.

La norme NFPA 2500 (1983) édition 2022 exige que les systèmes d'évacuation incendies soient marquées avec la mention « Ne pas démonter ». Le connecteur, l'appareil de contrôle de la descente et la corde du système EXO sont certifiés selon la norme 2500 (1983)-2022. Si nécessaire, la corde ou le connecteur Am'D peut être remplacé suivant les instructions de Petzl.

Cet appareil de contrôle de descente a passé les tests de fonctionnement avec la corde suivante : PETZL TECHNORA, MAT8502 ou MAT8503, 7.5mm

Après avoir retiré la notice de l'équipement, faites-en une copie et gardez l'original dans vos archives qui doivent également inclure les usages et l'historique d'inspection de cet équipement. Gardez la copie de la notice avec l'équipement et référez-vous-y avant et après chaque utilisation. Des informations complémentaires sont disponibles dans la NFPA 1500, NFPA 1858 et NFPA 1983, incorporées dans l'édition 2022 de la norme NFPA 2500.

Spare parts / Pièces détachées

Replacement rope for EXO
Corde de rechange pour EXO

Traceability and markings Traçabilité et marquage

a. Traceability : datamatrix = serial number

b. Rope length

c. Serial number

YY M 0000000 000

d. Year of manufacture

e. Month of manufacture

f. Batch number

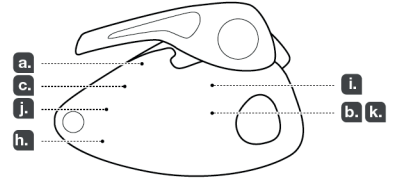
g. Individual identifier

h. Standards

i. Read the instructions for use carefully

J. Model identification

k. Maximum descent



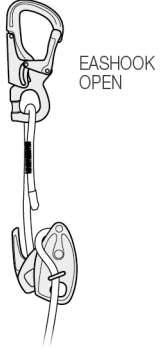
Rope specifications / Performances de la corde

		Technora (Raw)	Technora (Black)
1	Sheath slippage (%) / Glissement de la gaine (%)	0,1	0,2
2	Elongation (%) / Allongement (%)	0,3	0,5
3	Mass of the sheath (%) / Masse de la gaine extérieure (%)	51,8	51,9
4	Mass of the core material (%) / Masse du matériau de l'âme (%)	48,2	48,1
5	Mass per unit length (g/m) / Masse par unité de longueur (g/m)	42,26	42,53
6	Shrinkage (%) / Rétractation (%)	0,2	0,1

1. Field of application (text part)
 Champ d'application (partie texte)

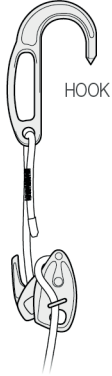
Standards / Normes

	Connector Connecteur EN 362	Connector Connecteur NFPA	Connector Connecteur EN 362 & NFPA
EN 341: 2011 type D	✓	✗	✓
2500 (1983) ESCAPE USE (2022 ED.)	✗	✓	✓



EASHOOK
OPEN

EN 341: 2011 type D



HOOK

**NFPA 2500 (1983)
ESCAPE USE
(2022 ED.)**



Connecteur EN 362
and/or
Connecteur NFPA

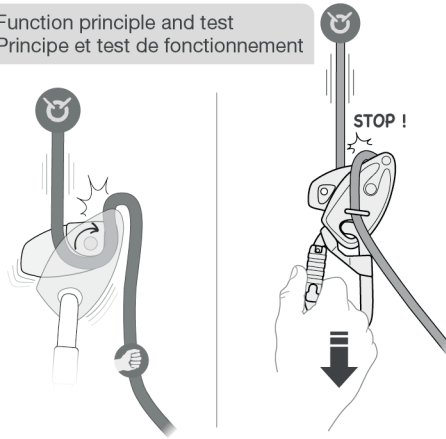
**EN 341: 2011 type D
and/or
NFPA 2500 (1983) ESCAPE USE
(2022 ED.)**

3. Inspection, points to verify
 Contrôle, points à vérifier



4. Compatibility (Texte part)
 Compatibilité (Partie texte)

5. Function principle and test
 Principe et test de fonctionnement



2. Nomenclature

Connecteur d'amarrage EN 362 et/ou NFPA
 EN 362 and/or NFPA anchor connector

13

5

6

Rope

Metal
descender

2

1

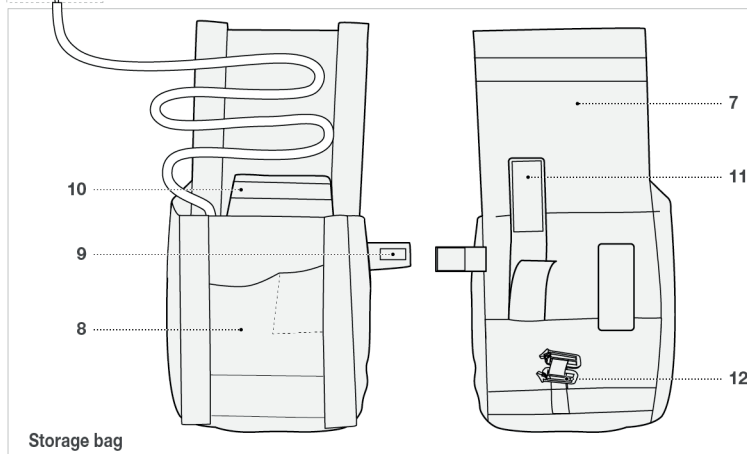
3

6

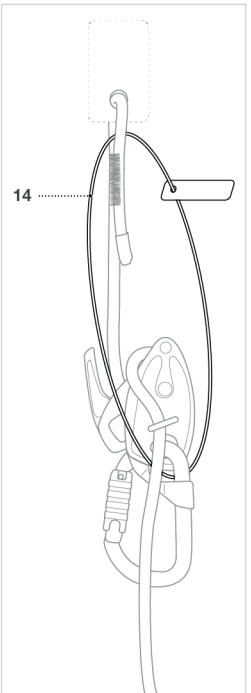
5

4a

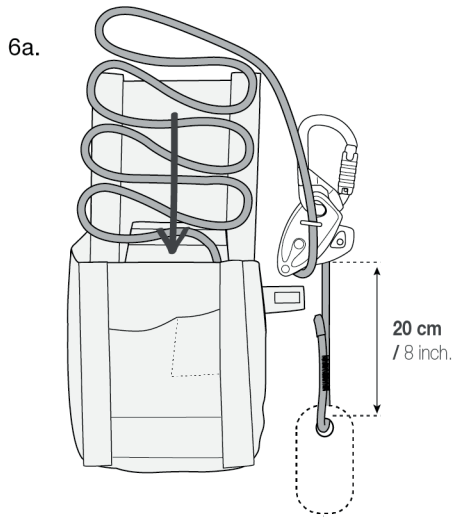
Connecteur d'amarrage EN 362 et/ou NFPA
 EN 362 and/or NFPA anchor connector



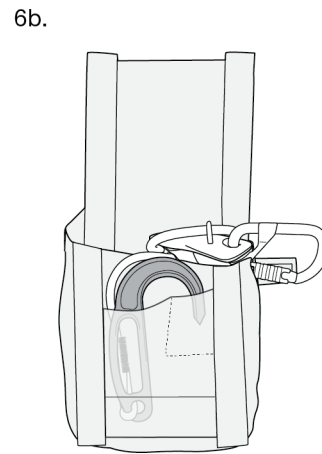
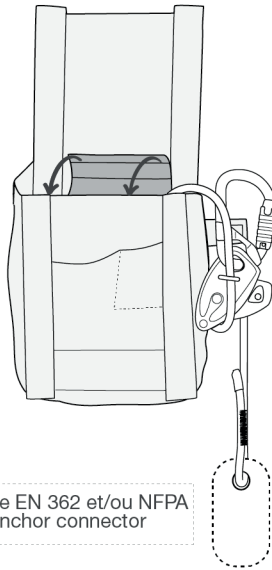
Storage bag



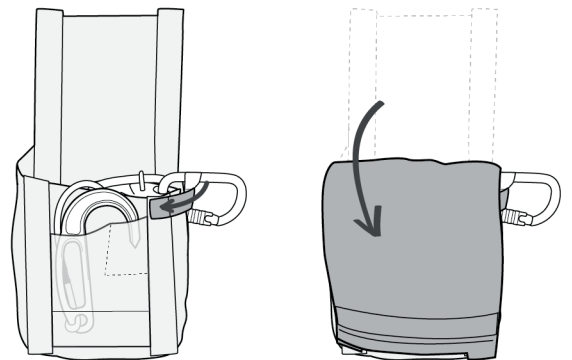
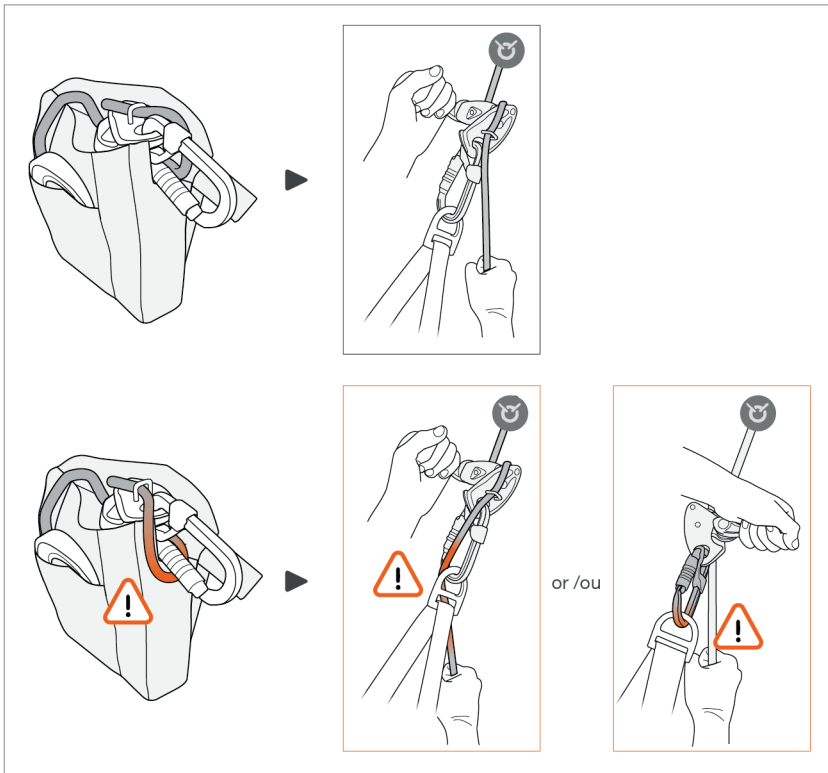
6. Preparing the EXO and packing it in the bag
Préparation de l'EXO et rangement dans la sacoche



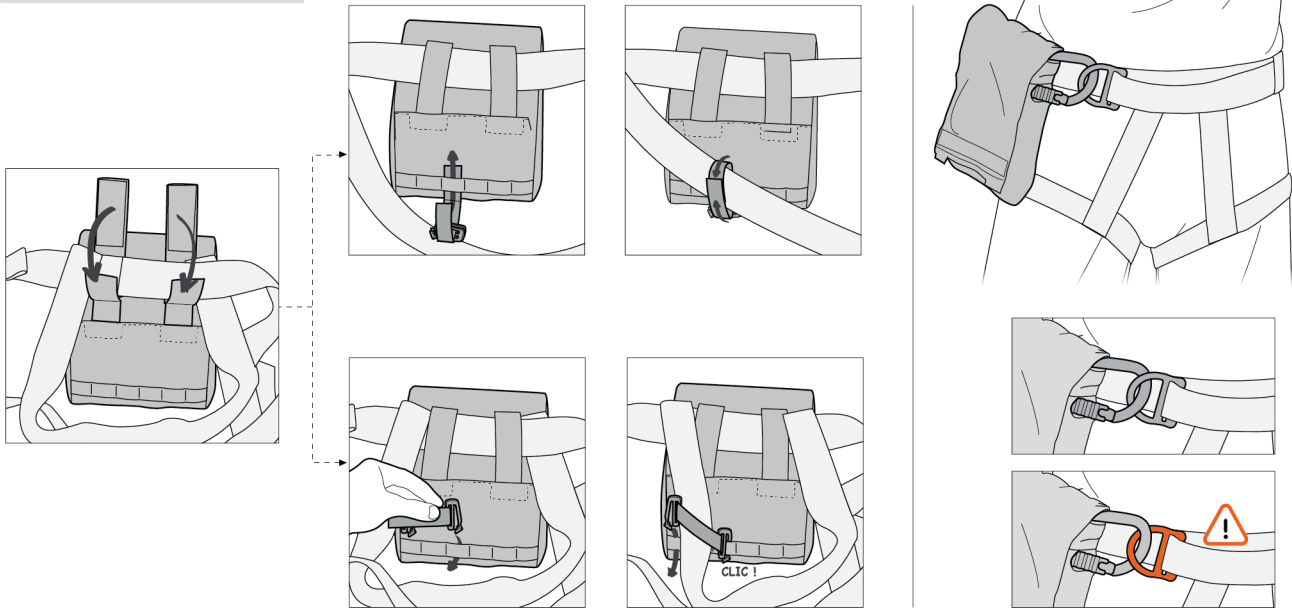
Connecteur d'amarrage EN 362 et/ou NFPA
EN 362 and/or NFPA anchor connector



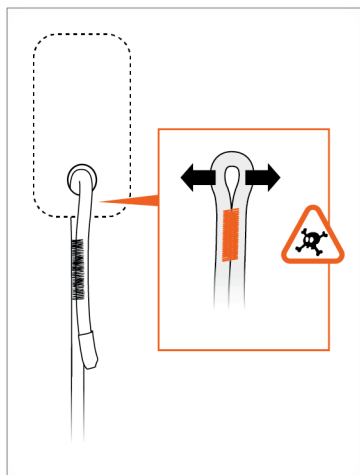
Connecteur d'amarrage EN 362 et/ou NFPA
EN 362 and/or NFPA anchor connector



7. Installation on the harness
Mise en place sur le harnais

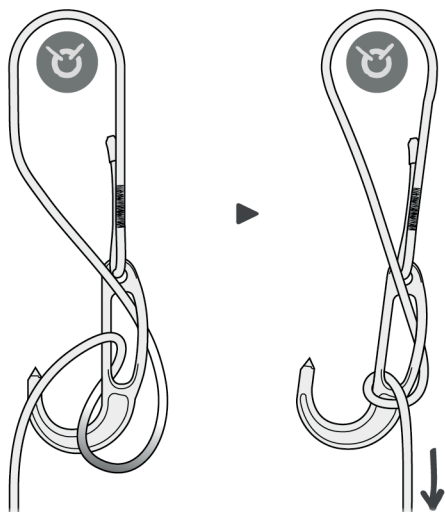
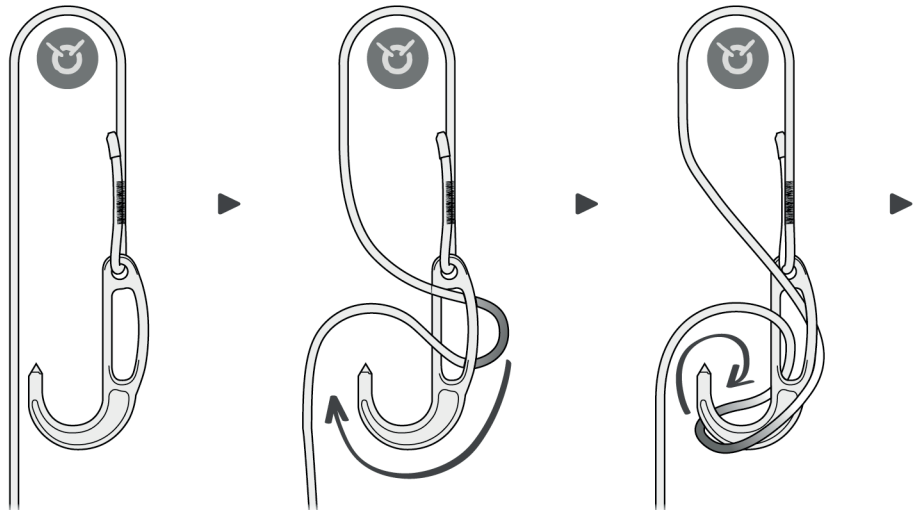


8. Installation on the anchor
Mise en place sur l'amarrage

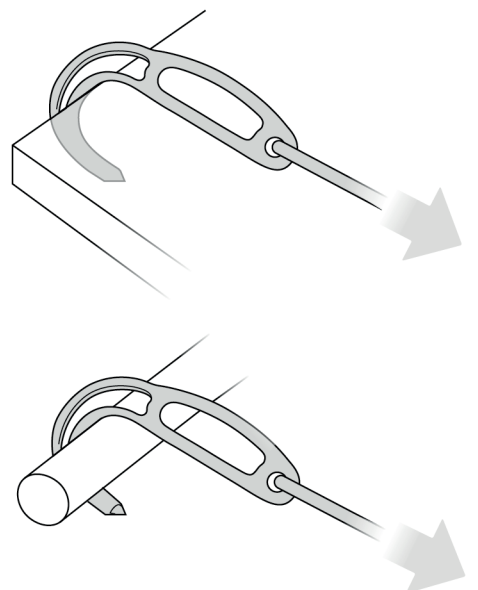


Exemples with an NFPA anchor hook
Exemples avec le crochet d'amarrage NFPA

8a.



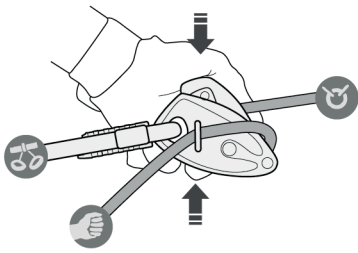
8b.



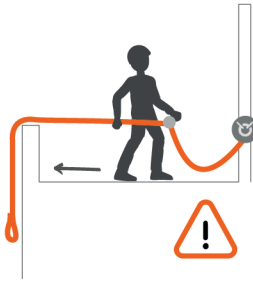
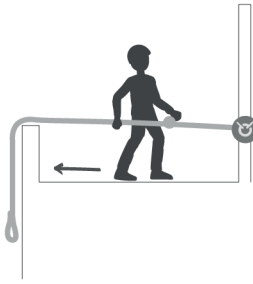
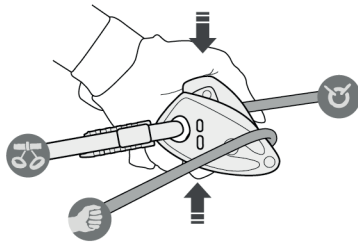
9 Self-rescue
Auto-évacuation

Horizontal movement/
Déplacement à l'horizontal

Closed rope guide
Pontet fermé

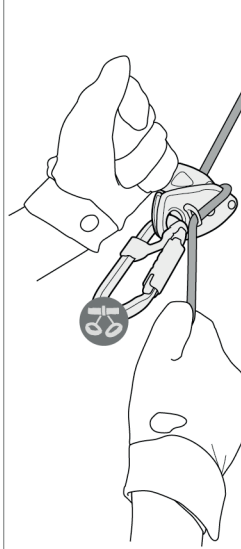


Open rope guide
Pontet ouvert

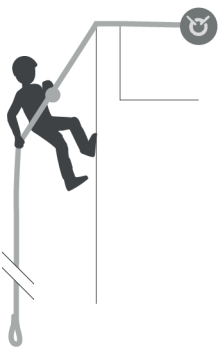
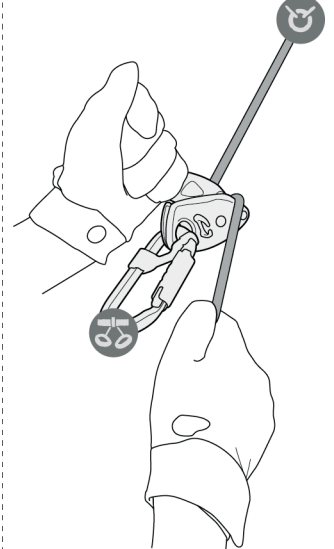


Vertical descent/
Descente verticale

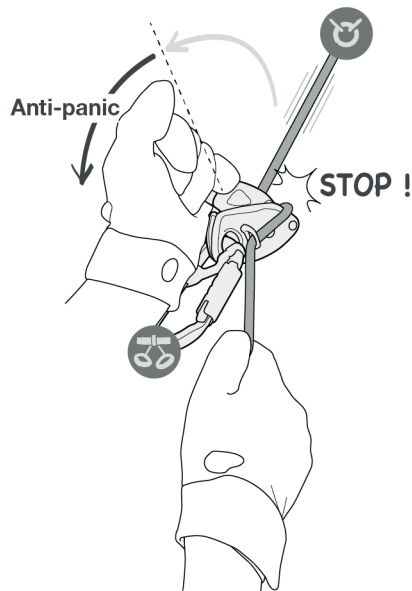
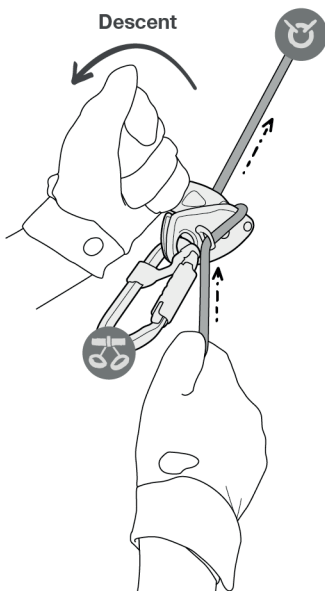
Closed rope guide
Pontet fermé



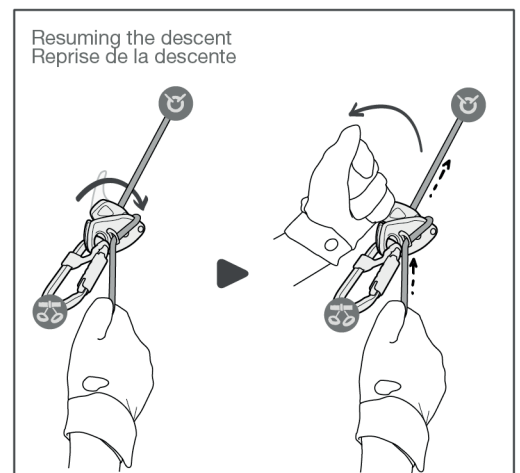
Open rope guide
Pontet ouvert



Anti-panic function
Fonction antipanique




Resuming the descent
Reprise de la descente



11. Additional information
Informations complémentaires

A. Lifetime / Durée de vie

Serial n° / N° de série
 XX XX XXXX + 10 years
ans

B. Acceptable T°
T° tolérées

 - + 250°C / + 176°F
- 20°C / - 4°F

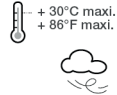
C. Precautions for use / Précautions d'usage



D. Cleaning / Nettoyage



E. Drying / Séchage



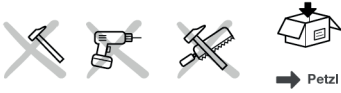
F. Storage - Transport
Stockage - transport



G. Maintenance
Entretien



H. Modifications - Repairs
Modifications - Réparations



I. FAQ - Contact
Questions - Contact



These instructions explain how to correctly use your equipment. Only certain techniques and uses are described. The warning symbols inform you of some potential dangers related to the use of your equipment, but it is impossible to describe them all. Check Petzl.com for updates and additional information. You are responsible for heeding each warning and using your equipment correctly. Any misuse of this equipment will create additional dangers. Contact Petzl if you have any doubts or difficulty understanding these instructions.

1. Field of application

Emergency personal descent system including a rope with sewn terminations (7.5 mm diameter).

Designed for rescue purposes only.

The system is designed for use by a single person.

Nominal load: 60-136 kg.

Maximum descent: see product marking.

Do not reuse your EXO after it has been used in an emergency situation.

This product must not be pushed beyond its limits, nor be used for any purpose other than that for which it is designed.

Responsibility

WARNING

Activities involving the use of this equipment are inherently dangerous.

You are responsible for your own actions, decisions and safety.

Before using this equipment, you must:

- Read and understand all Instructions for Use.
- Get specific training in its proper use.
- Become acquainted with its capabilities and limitations.
- Understand and accept the risks involved.

Failure to heed any of these warnings may result in severe injury or death.

This product must only be used by competent and responsible persons, or those placed under the direct and visual control of a competent and responsible person.

You are responsible for your actions, your decisions and your safety and you assume the consequences of same. If you are not able, or not in a position to assume this responsibility, or if you do not fully understand the Instructions for Use, do not use this equipment.

2. Nomenclature

Metal descender

(1) Cam, (2) Handle, (3) Open or closed rope guide.

Technora kernmantle rope

(4) Sewn termination (anchor side), (4a) Sewn termination (brake side), (5) Stitching, (6) Heat-shrink cover for termination.

Storage bag

(7) Rope divider flap, (8) Connector pocket, (9) Velcro for positioning the connector, (10) Flap closure, (11) Velcro for attachment to the harness, (12) Rear positioning strap.

Anchor connector

(13) Anchor connector that meets EN 362 and/or NFPA 1983, 2012 edition.

(14) Use indicator (EXO EN 341 only).

3. Inspection, points to verify

Your safety is related to the integrity of your equipment.

Petzl recommends a detailed inspection by a competent person at least once every 12 months (depending on current regulations in your country, and your conditions of usage). Follow the procedures described at Petzl.com. Record the results on your PPE inspection form: type, model, manufacturer contact info, serial number or individual number, dates: manufacture, purchase, first use, next periodic inspection; problems, comments, inspector's name and signature.

You must only use an EXO that has been packed and checked in conformance with the described procedures.

Before and after each operation

Bag

Visually inspect your bag.

If it has been exposed to high temperatures, or if it shows signs of burns, tears, discoloration of the fabric due to soaking with water or chemicals, perform a complete system check as described below.

Metal descender

Verify that the product has no cracks, deformation, marks, corrosion... Check the state of wear. Verify that the cam and handle move freely, and that the springs are working properly. Verify that there are no foreign objects (sand...) in the mechanism and no lubricant on the rope path.

Verify the presence of the use indicator (plastic link between the anchor connector and the descender). If the use indicator is missing, the EXO has already been used.

Rope

Visually check the condition of the sheath along the full length of the rope. Check it in 30 cm intervals, turning the rope to inspect it completely.

Make sure there are no cuts, burns, frayed strands, fuzzy areas, or signs of chemicals...

Carry out a tactile inspection of the core along the entire length of the rope, as indicated in the diagram. This allows you to detect areas where the core is damaged (hard spot, mushy area...).

Check the safety stitching on the sewn terminations. Be particularly careful to check for cut or loose threads.

Anchor connector

Verify that there is no wear, cracks, deformation... Open the gate, verify that it closes and locks itself automatically when released.

During use

It is important to regularly monitor the condition of the product and its connections to the other equipment in the system. Make sure that all items of equipment are correctly positioned with respect to each other.

Do not allow anything to block the device (cam) or any of its components.

Verify that the carabiner is always loaded on the major axis. Regularly check that the locking sleeve is locked. Avoid any pressure or rubbing that could unlock the gate or damage the locking sleeve.

Verify that the rope has no knots in it, and that there are no loops around the descender. A rope that is poorly packed, or that has knots in it, can cause serious consequences during descent.

4. Compatibility

Verify that this product is compatible with the other elements of the system in your application (compatible = good functional interaction).

For attaching the descender to the harness, use an EN 362 and/or NFPA 1983 connector, preferably TRACT-LOCK. This connector must be equipped with a CAPTIV bar or other system that makes the connector directional. This system must only be used with a seat harness or full-body harness. The use of a simple belt is prohibited.

5. Function principle and test

When you load the system with your body weight, the tensioned rope makes the descender frame rotate on the connector, and the cam pinches and brakes the rope. By holding the brake side of the rope, the brake handle helps engage the cam to lock the rope. To unlock the rope, pull the handle while holding the brake side of the rope.

The cam and the frame of the descender must be able to rotate freely at all times.

WARNING: any blockage of the device or cam will negate the braking action on the rope.

6. Preparing the EXO and packing it in the bag

This operation must be carried out by trained and competent persons.

This operation is to be carried out after an inspection of the system, a practice session, or any time that the rope is removed from the bag.

Perform a function test and a complete inspection of the EXO before packing and storing. Spread out the system in a clean, flat work area.

6A. Folding and packing the rope in the bag

WARNING: the rope must be properly packed so that it can be deployed without forming a knot.

Open the bag and place it on its back. Put the sewn termination (brake side) on the right side of the bag. Make five flat bights of the same width as the bag (see drawing). Slide these bights into the bag. Repeat the operation until the rope is packed.

Leave 20 cm of rope between the hook and the descender, then close the rope divider flap.

6B. Packing the descender in the bag

Place the descender on the rope divider flap (descent handle down against the rope).

The rope is packed in the lower compartment.

The connector must not be obstructed by the rope.

The end of the rope and the hook come out of this compartment. Put the hook in the front pocket of the bag.

WARNING: the system will not function correctly if the descender, the connector, or the rope are poorly placed.

Use the Velcro to hold the connector.

Close the upper flap with its Velcro.

7. Installation on the harness

Attach the bag to the harness belt, on your right, with the two Velcro strips and the rear positioning strap vertically or horizontally oriented, depending on the harness.

The EXO must always be connected to the harness attachment point. It is recommended to use the EXO and bag with an extended attachment point, to keep the connector permanently attached to the harness, with the bag on the side.

Pay attention to the orientation of the connector in the attachment point because this determines the correct position of the descender during evacuation (see drawing). Make sure the gate is correctly closed and locked.

8. Installation on the anchor

Defining and making an anchor is a topic too complex to be fully described in these instructions. We include only a few examples using an NFPA 1983 anchor hook with hole. You must know how to make an anchor. Warning: your rope must not come into contact with sharp or abrasive edges, or be subjected to high temperatures. Warning: the rope end connector must not be cantilevered (for example on a beam), as its strength will be reduced. Verify that the carabiner is always loaded on the major axis. This connector must be equipped with a CAPTIV bar or other system that makes the connector directional. Make sure that your anchor does not hinder your descent. Examples with an anchor hook

8A. Around a structure

Pass the hook end of the rope around a solid fixed anchor.

Secure the anchor by passing a loop of rope through the hook's locking slot. This loop must be wrapped around the hook.

8B. Hook use

- On a window sill: set the hook on the window sill (head on the inside) with the left hand. Place it on the left side of the window, so as to create the best placement for performing the roll-out.
- Around a post, on the edge of a wall: place the hook as low as possible in a stable position and always keep the rope under tension between the hook and the descender. WARNING: the hook must not be cantilevered (for example on a beam), as there is a risk of unhooking.

9. Self-rescue

Use gloves with the evacuation system.

The actions described below do not in any case replace proper training.

Horizontal movement

Verify that the anchor connector is well placed.

Tension the rope with your body weight.

Press the descender's cam with the left hand to allow the rope to slide.

Always keep the rope under tension. Do not allow any slack between the descender and the anchor.

Vertical descent

Verify that the anchor connector is well placed.

Always keep the rope under tension.

Warning: when transitioning from horizontal to vertical (clearing obstacles), the descender can get jammed on an edge.

Gradually pull on the handle with the left hand. Always hold the brake side of the rope with your right hand. The handle can assist in braking, but the rate of descent is controlled by varying the grip of the brake hand on the brake side of the rope.

You must always control your descent speed: 2 m/s maximum.

Panic situation (only for the EXO with anti-panic function): if the handle is pulled too far, the anti-panic function locks the rope. To continue the descent, move the handle to the closed position and resume the descent.

Warning: if you release the handle, continue to keep a firm grip on the brake side of the rope.

- Any jamming of the rope in the descender (knots, rope jammed behind the cam, tangled rope), will stop your evacuation.

- In a descent that is too fast, a sudden stop on a knot or the sewn termination can break or unhook the anchor.

- It is essential to always keep the descent well under control: a loss of control can be difficult to correct.

Detaching from the system

When your descent is finished, verify that you have reached safety and detach the connector from your harness.

For more information on evacuation techniques (particularly on going through windows), see the videos at Petzl.com.

10. Practicing

We recommend that you practice descending with your EXO system at least once a year. Practice units must be used exclusively for this purpose. During this practice, we recommend that you be backed up by a separate belay system.

11. Additional information

- Descenders installed at a work station, and left in place between inspections, must be properly protected from environmental conditions.

- You must have a rescue plan and the means to rapidly implement it in case of difficulties encountered while using this equipment.

- The anchor point for the system should preferably be located above the user's position and should meet the requirements of the EN 795 standard (12 kN minimum strength).

- In a fall-arrest system, it is essential to check the required clearance below the user before each use, in order to avoid any impact with the ground or with an obstacle in case of a fall.

- Make sure that the anchor point is correctly positioned, in order to limit the risk and the length of a fall.

- A fall-arrest harness is the only device allowable for supporting the body in a fall-arrest system.

- When using multiple items of equipment, a dangerous situation can arise in which the safety function of an item of equipment can be affected by the safety function of another item of equipment.

- WARNING: ensure that your products do not rub against abrasive or sharp surfaces.

- Users must be medically fit for activities at height. WARNING: inert suspension in a harness can result in serious injury or death.

- The Instructions for Use for each item of equipment used in conjunction with this product must be followed.

- The Instructions for Use must be provided to the user of this equipment, in the language of the country where the equipment is used.

- Make sure the markings on the product are legible.

- The energy of descent is equal to the product of the descent length, the mass of the person and the acceleration of gravity.

When to retire your equipment:

WARNING: an exceptional event can lead you to retire a product after only one use, depending on the type and intensity of usage and the environment of usage (harsh environments, marine environments, sharp edges, extreme temperatures, chemicals...).

A product must be retired when:

- It has been used in an emergency situation.
- It has been in direct contact with flames.
- It has been subjected to a major fall (or load).
- It fails to pass inspection. You have any doubt as to its reliability.
- You do not know its full usage history.

- When it becomes obsolete due to changes in legislation, standards, technique or incompatibility with other equipment...

Destroy these products to prevent further use.

Icons:

A. Lifetime: 10 years - B. Acceptable temperatures.

This product must not be exposed to temperatures greater than +250° C or to direct contact with flames.

- C. Usage precautions - D. Cleaning - E. Drying - F. Storage/transport - G. Maintenance - H. Modifications/repairs (prohibited outside of Petzl facilities, except replacement parts) - I.

Questions/contact

3-year guarantee

Against any material or manufacturing defect. Exclusions: normal wear and tear, oxidation, modifications or alterations, incorrect storage, poor maintenance, negligence, uses for which this product is not designed.

Warning symbols

1. Situation presenting an imminent risk of serious injury or death. 2. Exposure to a potential risk of accident or injury. 3. Important information on the functioning or performance of your product. 4. Equipment incompatibility.

Traceability and markings

a. Traceability: datamatrix - b. Rope length - c. Serial number - d. Year of manufacture - e. Month of manufacture - f. Batch number - g. Individual identifier - h. Standards - i. Read the instructions for use carefully - j. Model identification - k. Maximum descent

Rope specifications

1. Sheath slippage (%)
2. Elongation (%)
3. Mass of the sheath (%)
4. Mass of the core material (%)
5. Mass per unit length (g/m)
6. Shrinkage (%)

