



I'D L®

CE 0082
EN 12841 / C
EN 341 / A

EAC
TP TC 019/2011
NFPA

ANSI / ASSP :
Z359.9-2021/3
GB/T 38230-2019: II A
XF 494-2023: FZL-X-T12.5/13

Self-braking descender/belay device
Descendeur assureur auto-freinant



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;

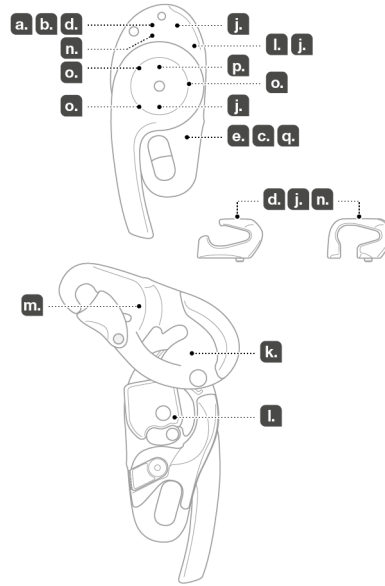
China standards / 中国标准

XF494-2023: FZL-X-T12.5/13

When operating under the XF 494-2023 standard for firefighters, use only a 12.5-13 mm diameter Light or General Use kernmantle Life Safety Rope.

当在消防的XF 494-2023标准下使用时，只能使用直径 12.5-13 mm 的轻型或通用类芯生命安全绳索。

Traceability and markings
Traçabilité et marquage



a. CE
TÜV SÜD Product Service GmbH
Zertifizierstellen - Ridlerstraße 65
80339 MÜNCHEN
N°0123

b. 0082
APAVE Exploitation France SAS
6 Rue du Général Audran
92412 Courbevoie cedex - France
N°0082

e. Serial number / Numéro de série
YY M 0000000 000

f.
g.
h.
i.

p.

PETZL.COM



Latest version
Dernière version



Other languages
Autres langues



Technical tips
Conseils techniques



PPE checking
Fiche de contrôle EPI

Warning symbols
Panneaux d'alertes



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FR-38920 Crolles
Cidex 105A
PETZL.COM

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ISO 9001 © Petzl
Made in France



Fondation

Sustaining our Community
Au service de la Communauté
FONDATION-PETZL.ORG

NFPA CERTIFICATION FOR I'D L D020BA

MEETS THE DESCENT CONTROL AND
BELAY DEVICE REQUIREMENTS OF NFPA
1983, INCORPORATED IN THE 2022
EDITION OF NFPA 2500.



Descent control
Belay device
G (GENERAL USE)

USE ONLY GENERAL USE LIFE SAFETY ROPES,
(CORE + SHEATH) **DIAMETER BETWEEN 12.5 MM
AND 13 MM FOR USE AS DESCENT CONTROL
DEVICE, AND DIAMETER 12.5 MM FOR USE AS
BELAY DEVICE.**

This descent control device has passed the manner of
function and holding load tests using the following
rope: [PETZL VECTOR, 12,5MM] AND
[TEUFELBERGER, 1/2" KM3, 13MM]

This belay device has passed the manner of function
test using the following rope: [PETZL VECTOR,
12,5MM]

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.

NFPA CERTIFICATION FOR I'D L D020BA

RÉPOND AUX EXIGENCES NFPA 1983, DE
L'ÉDITION 2022 DE LA NFPA 2500 POUR
LES APPAREILS D'ASSURAGE ET DE
CONTRÔLE DE DESCENTE

UTILISEZ UNIQUEMENT DES GENERAL USE LIFE SAFETY
ROPES, (GAINE + ÂME) **DONT LE DIAMÈTRE EST COMPRIS
ENTRE 12,5 MM AND 13 MM, POUR UNE UTILISATION EN
APPAREIL DE CONTRÔLE DE DESCENTE, ET DE
DIAMÈTRE 12,5 MM POUR UNE UTILISATION EN
APPAREIL D'ASSURAGE.**

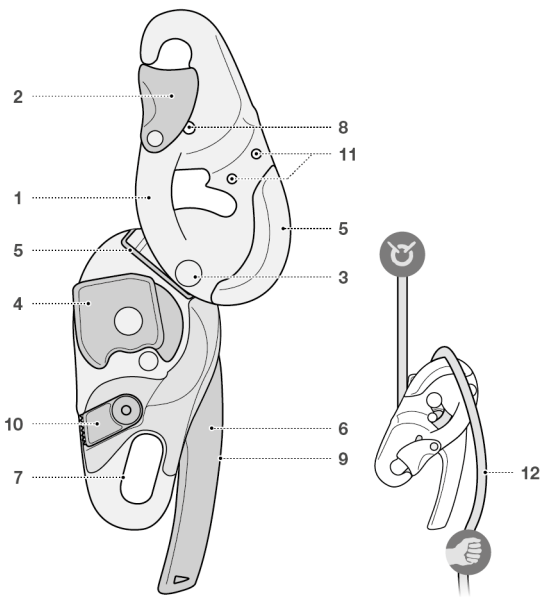
Cet appareil de contrôle de descente a passé les tests de
fonctionnement et de blocage avec les cordes suivantes: [PETZL
VECTOR, 12,5MM] AND [TEUFELBERGER, 1/2" KM3, 13MM]

Cet appareil d'assurage a passé les tests de fonctionnement
avec les cordes suivantes : [PETZL VECTOR, 12,5MM]

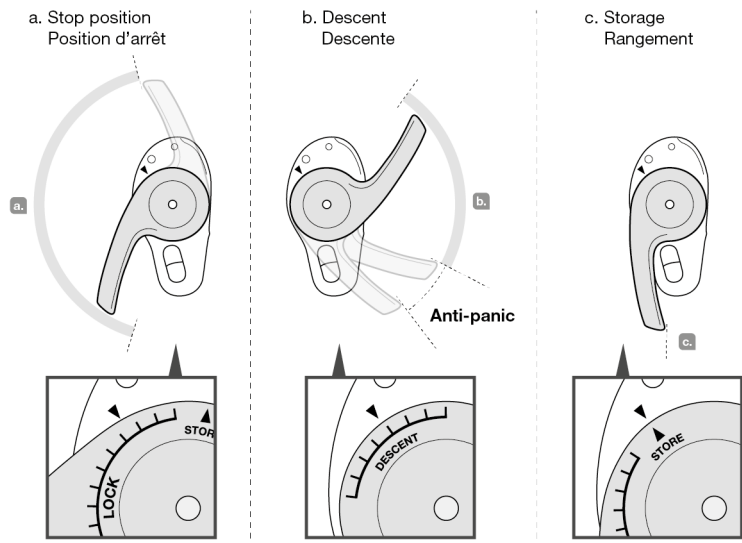
Après avoir détaché la notice du produit, faites en une copie et gardez l'original
dans un dossier qui compile l'historique de vie du produit et les vérifications EPI
réalisées. Gardez une copie de la notice avec le produit et consultez-la avant et
après chaque utilisation. Des informations complémentaires sur les systèmes
d'évacuation sont disponibles dans la NFPA 1500, NFPA 1858 et NFPA 1983,
incorporées dans l'édition 2022 de la norme NFPA 2500.

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

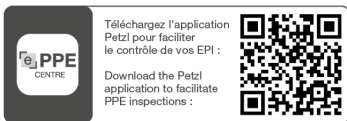
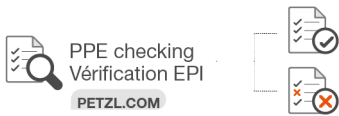
2. Nomenclature



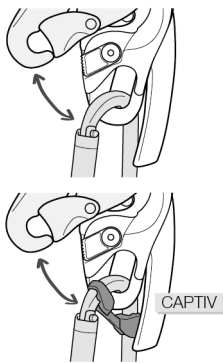
Handle positions
 Positions de la poignée



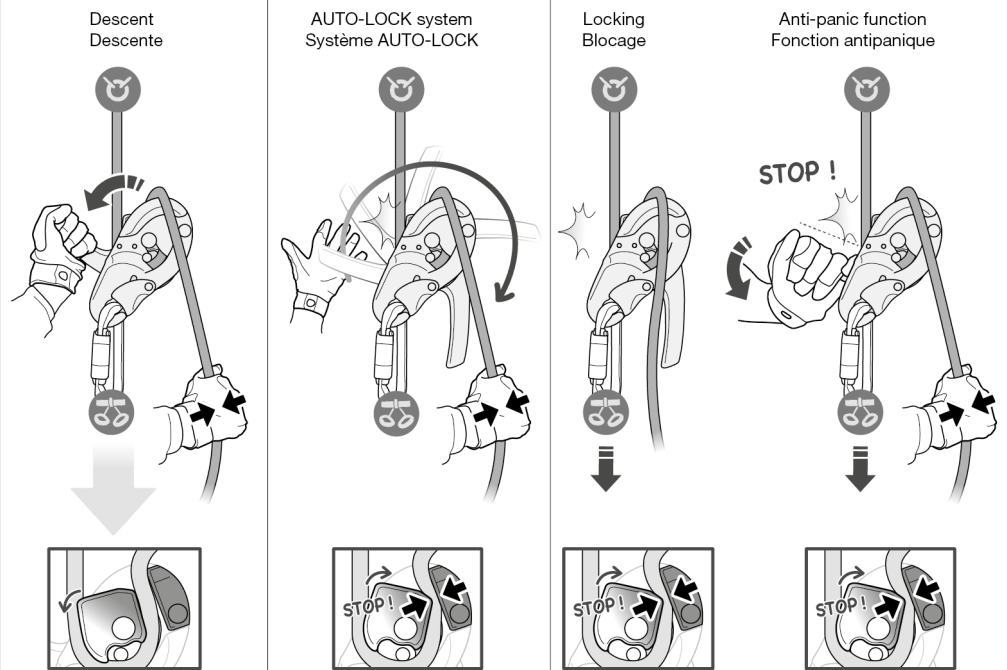
3. Inspection, points to verify
 Contrôle, points à vérifier



4. Compatibility
 Compatibilité

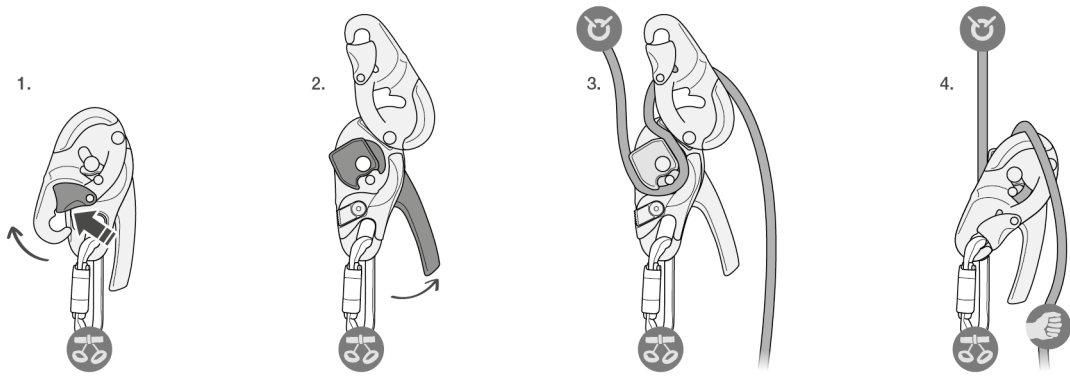


5. Function principle and test
 Principe et test de fonctionnement

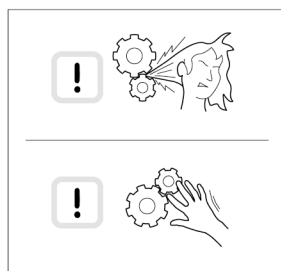
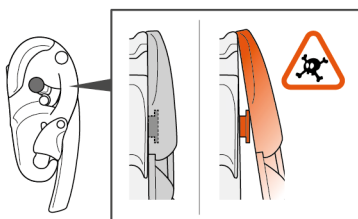
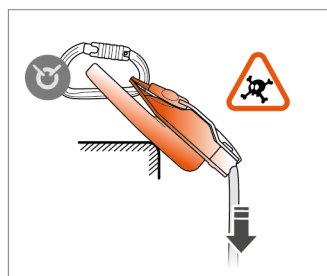
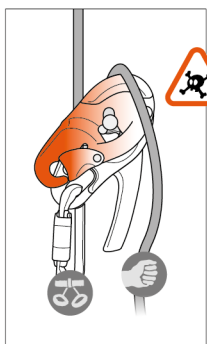
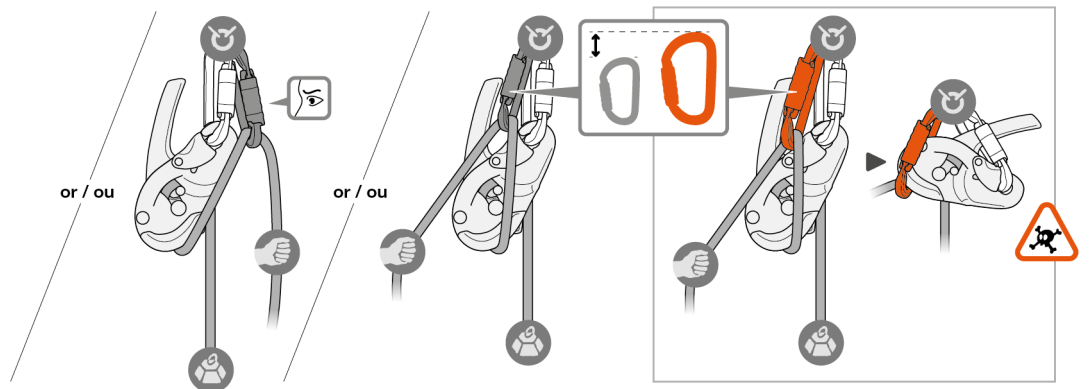
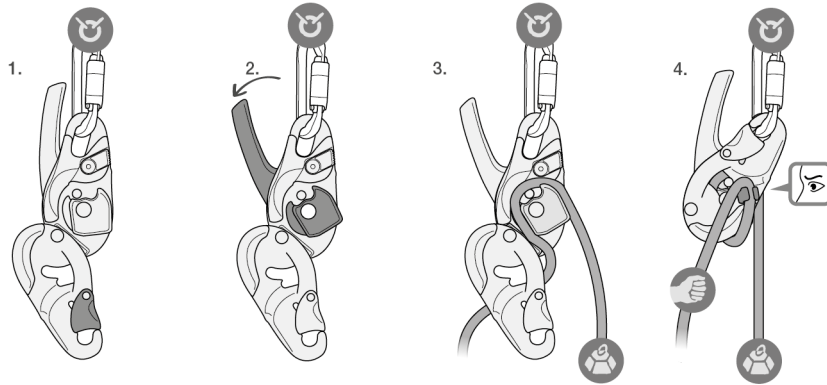


6. Installation
Installation

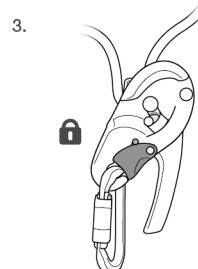
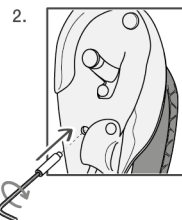
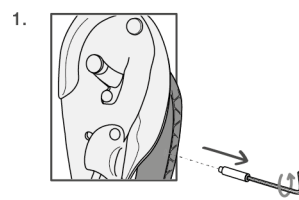
Device on the harness
Appareil au harnais



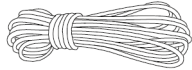
Device on an anchor
Appareil à l'ancrage



Locking the safety gate
Verrouillage du cliquet



7. EN 12841 type C - Rope access
EN 12841 type C - Accès sur corde



12,5 ≤ Ø ≤ 13 mm
EN1891 A

 150 kg
max.

RESCUE / SECOURS

 200 kg
max.

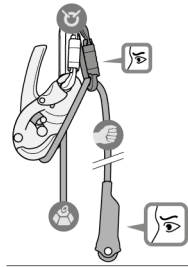
8. Descender
Descendeur

EN 341 class A GB/T 38230-2019: II A

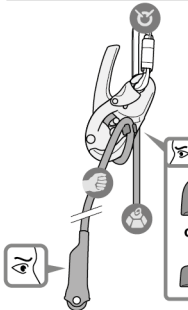
Maximum descent energy 7,5 MJ

Energie de descente maximum 7,5 MJ

Rope Corde	Working load limit (EN341) Charge d'utilisation maxi (EN341)	Maximum descent Descente maximum
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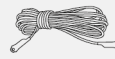
Petzl VECTOR 12,5 mm 120 kg 200 m



Petzl VECTOR 12,5 mm 150 kg 200 m
or / ou

Rope specifications

Performances des cordes testées



Petzl VECTOR 12,5 mm

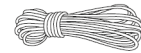
1. Sheath slippage (%) Glissement de la gaine (%)	0,8
2. Elongation (%) Allongement (%)	2,8
3. Mass of the sheath (%) Masse de la gaine extérieure (%)	46
4. Mass of the core material (%) Masse du matériau de l'âme (%)	54
5. Mass per unit length (g/m) Masse par unité de longueur (g/m)	111
6. Shrinkage (%) Rétractation (%)	1,9

ANSI/ASSP Z359.9-2021



**DESCENT CONTROL DEVICE
APPAREILS DE CONTRÔLE DE DESCENTE**

ANSI / ASSP Z359.9-2021 Type 3

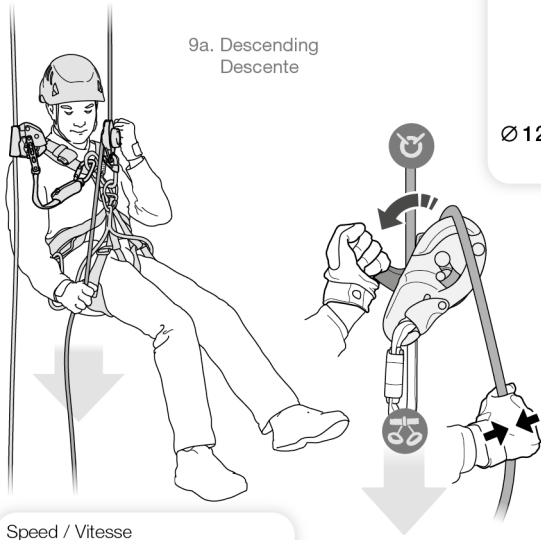


12,5 ≤ Ø ≤ 13 mm


200 kg - 440 Lbs MAX
0,5 m/s MAX
200 m MAX

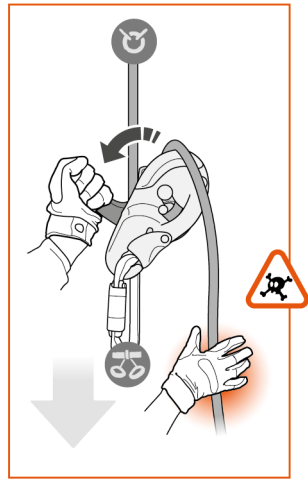
9. Usage on a harness
Utilisation au harnais

9a. Descending
Descente




Weight / Poids
30 kg <  < 120 kg

Rope / Corde
Ø 12,5 mm ≤  ≤ 13 mm




Speed / Vitesse


 30 - 120 kg = 2m/s. MAX
>120 kg = 0,5m/s. MAX

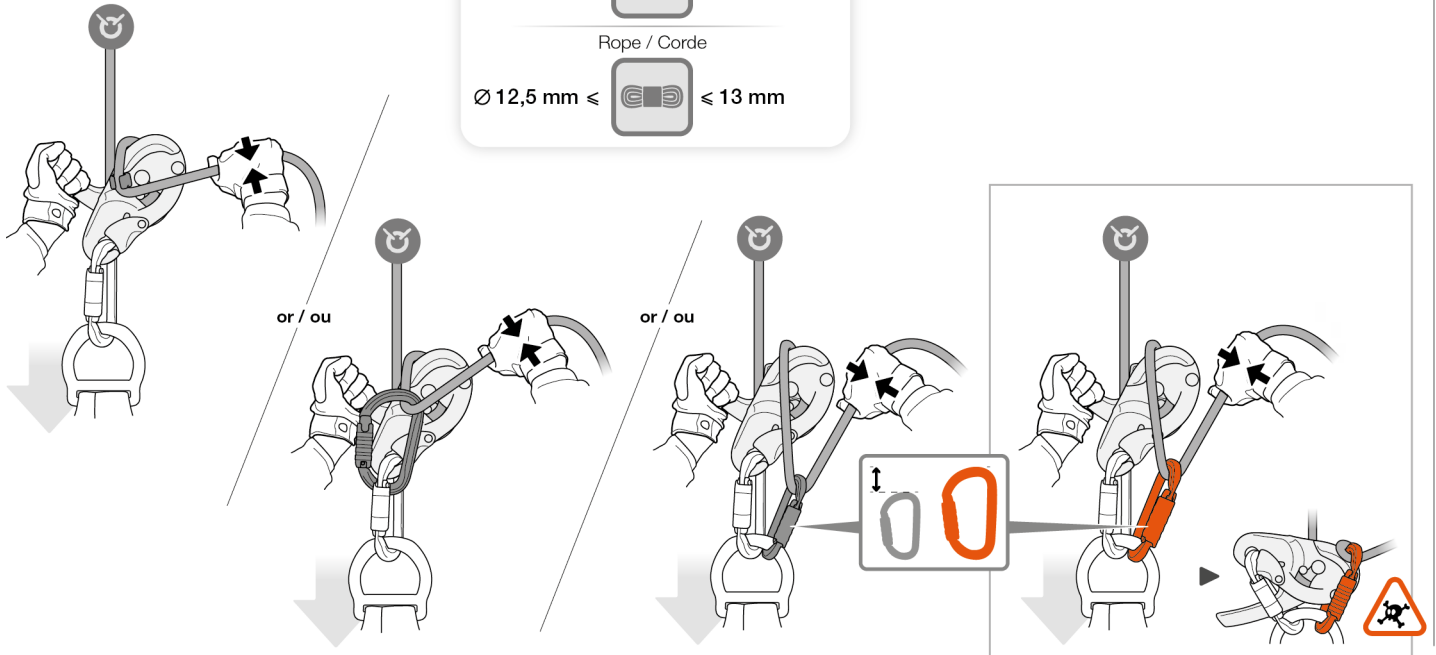
Height / Hauteur

 200 m MAX

9b. Extra friction
Ajout de freinage

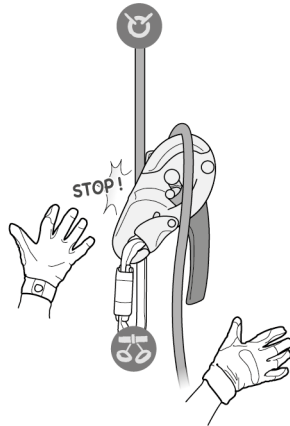
Weight / Poids
30 kg <  < 200 kg MAX

Rope / Corde
Ø 12,5 mm ≤  ≤ 13 mm

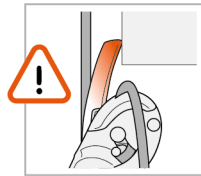
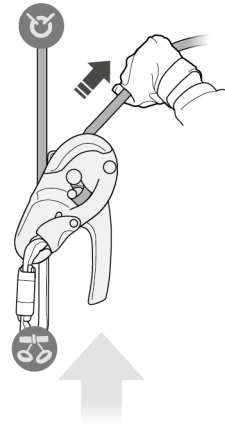


9. Usage on a harness
Utilisation au harnais

9c. Stop position
Position d'arrêt



9d. Occasional ascent
Remontée occasionnelle

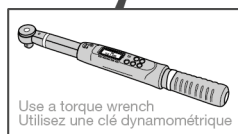
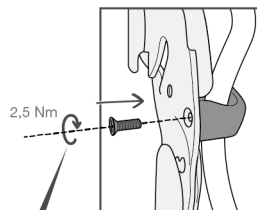
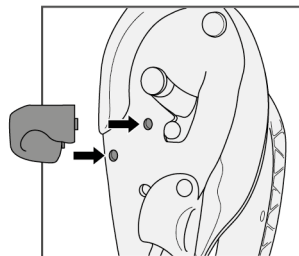


Accessories / Accessoires

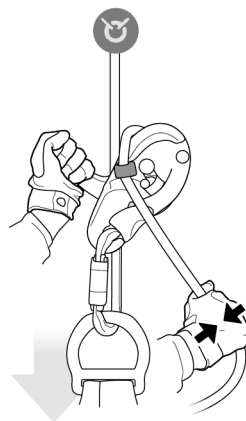
Frein additionnel fermé
Closed auxiliary brake



Frein additionnel ouvert
Open auxiliary brake

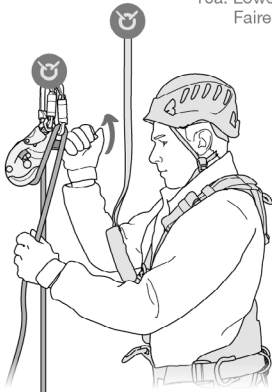



Use a torque wrench
Utilisez une clé dynamométrique




10. Usage on an anchor
Utilisation à l'ancrage

10a. Lowering
Faire descendre



Weight / Poids
30 kg <  < 150 kg MAX

Rope / Corde
Ø 12,5 mm ≤  ≤ 13 mm

Speed / Vitesse

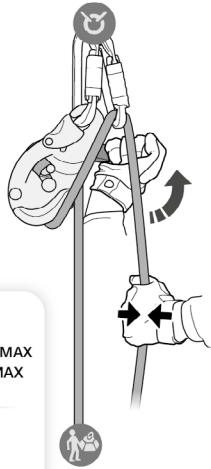


30 - 120 kg = 2m/s. MAX
>120 kg = 0,5m/s. MAX

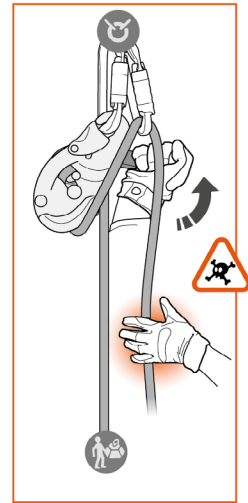
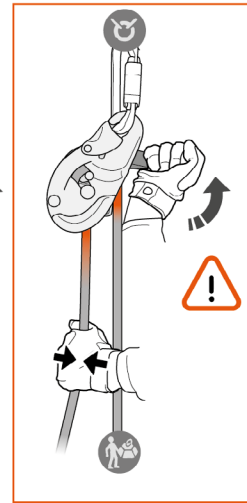
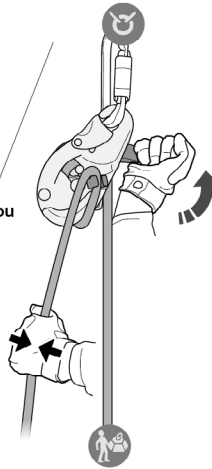
Height / Hauteur



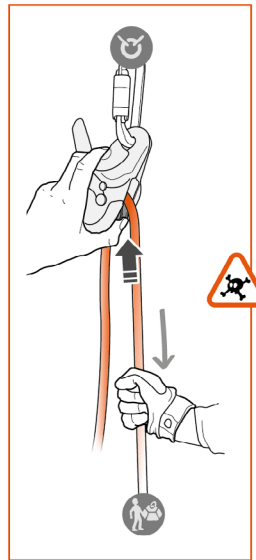
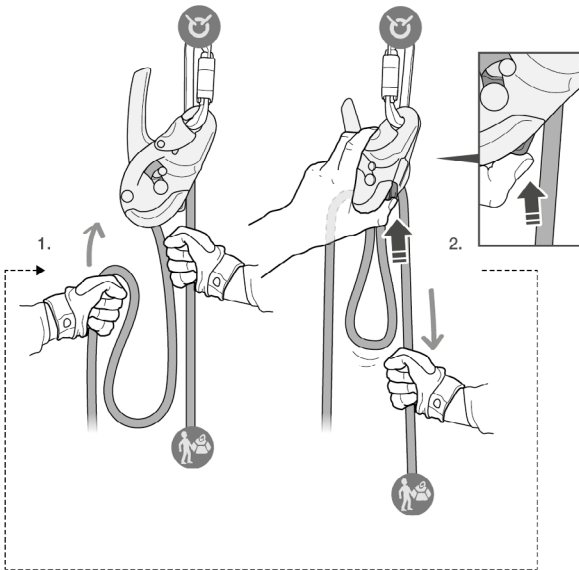
200 m MAX



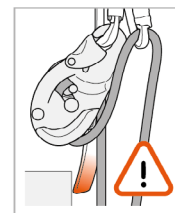
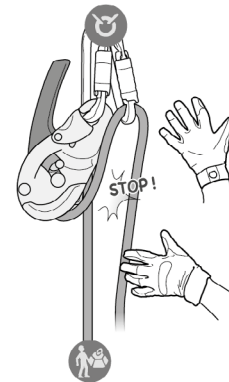
or / ou



10b. Giving slack
Donner du mou



10c. Stop position
Position d'arrêt



11. Limitations on use
Limites d'utilisation

Weight / Poids



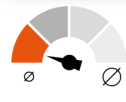
Height / Hauteur



Speed / Vitesse



Rope / Corde



12. Additional information
Informations complémentaires

<p>A. Lifetime / Durée de vie</p> <p>unlimited illimitée</p>	<p>B. Acceptable T° / T° tolérées</p> <p>+ 80°C / + 176°F - 40°C / - 40°F</p>	<p>C. Precautions for use / Précautions d'usage</p> <p>etc...</p>
<p>D. Cleaning / Nettoyage</p> <p>+ 30°C maxi. + 86°F maxi.</p>	<p>E. Drying / Séchage</p> <p>+ 30°C maxi. + 86°F maxi.</p>	
<p>F. Storage - Transport / Stockage - transport</p> <p>+ 30°C / + 86°F + 10°C / + 50°F</p>	<p>G. Maintenance Entretien</p>	
<p>H. Modifications - Repairs Modifications - Réparations</p> <p>→ Petzl</p>	<p>I. FAQ - Contact Questions - Contact</p> <p>→ petzl.com</p>	

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

Personal protective equipment (PPE) used for fall protection from height.
This product meets the requirements of Regulation (EU) 2016/425 on personal protective equipment. The EU declaration of conformity is available at Petzl.com.
Self-braking descender/delay device.
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

(1) Moving side plate, (2) Safety gate, (3) Axle, (4) Cam, (5) Brake plate, (6) Handle, (7) Attachment hole, (8) Hole for locking the safety gate, (9) Screw for locking the safety gate, (10) Anti-error catch, (11) Holes for auxiliary brake, (12) Brake side of the rope.

Handle positions:

- Stop position (load blocked, handle stowed to prevent accidental snagging).
- Descent (the handle gradually releases the block).
- Storage (handle stowed for transport).

Principal materials:

Aluminum alloy, stainless steel.

3. Inspection, points to verify

Your safety depends upon 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).
WARNING: your intensity of use may cause you to inspect your PPE more frequently. 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.

Before each use

Verify the absence of any deformation, cracks, marks, wear, corrosion on the product (side plates, axles, rivets, cam, brake plate, attachment hole, anti-error catch). Check the condition of the safety gate and verify that it works properly (return spring, complete closure). Check the condition of the handle and verify that it works properly (cam drive, return spring, anti-panic function). Check the cam's mobility.

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.
Beware of rubbing or contact with any external object that could interfere with device function (e.g. free rotation of the device, of the cam, of the handle).
WARNING: blocking performance and the braking effect vary depending on the condition of the rope and the conditions of usage (e.g. diameter, wear, dirt, moisture, rain, ice). For each rope, before use, you must familiarize yourself with blocking performance and the braking effect.

- The use of gloves is recommended to avoid any burn risk when touching the device or the rope, during or after the descent.

4. Compatibility

Verify that this product is compatible with the other elements of the system in your application (compatible = good functional interaction).
Equipment used with your ID L must meet current standards in your country (e.g. EN 1497 or EN 813 harnesses).
The safety gate allows the moving side plate to be opened and the rope to be installed without removing the connector. The ID L can therefore be used with the CAPTIV positioning bar to optimize connector positioning.

5. Function principle and test

The ID L blocks the rope in one direction and allows the rope to slide in the other direction. The rope friction in the cam groove causes the cam to rotate, which blocks the rope by pinching it against the brake plate.
Blocking can be gradually released by operating the handle (always hold the brake side of the rope).

WARNING: any excessive pull on the handle can cause a loss of control.

AUTO-LOCK system

The AUTO-LOCK system blocks the load automatically and returns the handle to the stop position.

Anti-panic function

The anti-panic function automatically stops the descent if the user pulls the handle too far. To resume the descent, load the handle to return to the stop position before operating it again.

6. Installing the ID L

Install a locking carabiner on the ID L for attachment to the harness or anchor.

6a. Connection to the harness

Open the moving side plate and raise the handle slightly to allow the cam to move. Install the rope around the cam in the direction indicated by the icons marked on the device. Close the moving side plate, making sure that the safety gate closes completely. Each time the rope is installed, check that the rope blocks in the desired direction. The anti-error catch helps detect a backward installation of the rope.

6b. Connection to an anchor

Open the moving side plate and raise the handle slightly to allow the cam to move. Install the rope around the cam in the direction indicated by the icons marked on the device. Close the moving side plate, making sure that the safety gate closes completely. Each time the rope is installed, check that the rope blocks in the desired direction. Pass the rope through a directional carabiner on the anchor or through the auxiliary brake (sold separately). **WARNING:** the anti-error catch will not work unless the rope passes through a directional carabiner on the anchor.

6c. Locking the safety gate

If it is necessary to prevent the device from opening once the rope is installed (e.g. rescue kit), the safety gate can be locked with the supplied screw.

7. Rope access

EN 12841: 2006 type C

Descender for progression on rope.

Working load limit: 150 kg for a single person; usage up to 200 kg is possible for two people in a rescue situation.

Ropes tested during the EN 12841 type C certification:

- Petzl VECTOR 12.5 mm.
- Teufelberger KM III 13 mm.

To reduce the risk of a fall or pendulum, keep the rope between the ID L and the anchor as tight and as vertical as possible.

Devices of type B and C are designed for progression on rope; they must be used together with a type A delay system (e.g. ASSP). With the full weight of the user is on the safety rope, it becomes a work rope and so must be used with another safety rope.

8. Descender

EN 341: 2011 class A

- Maximum energy of descent 7.5 MJ.

Energy = user weight x gravity x length of descent x number of descents.

- Ropes tested, working load limit, maximum descent: see diagrams.

- Minimum load: 30 kg.

- To reduce the risk of a fall, do not allow slack in the rope between the ID L and the load.
- Protect the ID L from surrounding environmental conditions if it is left installed on the anchor between inspections.

- EN 341 testing temperature: -40° C in dry conditions, -4° C in wet and cold conditions.

- Install the ID L on the anchor in a way that does not interfere with the descent.

- Control the speed of descent: a loss of control can be difficult to correct.

- The ID L can overheat and damage the rope in a descent that is too long or too fast.

- Make sure there is no obstacle that can interfere with the descent.

- The EN 341 standard, the ID L is designed only for rescue use.

- Specifications of ropes tested:

- Nylon and polyester ropes.
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 (%)

ANSI / ASSP Z359.9-2021

Maximum descent height: 200 m.

The ID L can be used for multiple successive descents by ensuring that the device does not overheat.

Refer to the ANSI Z359.9 standard and any applicable regulations.

The anchor point for the descent system should preferably be located above the user's position and should meet the requirements of applicable standards and regulations.

Connections to anchors must be done in a way that does not reduce the anchor strength, and that avoids any accidental movement of the system during use. Perform a tension test on the connection before applying the full load.

Ropes tested during the Z359.9-2021 certification:

- Petzl VECTOR 12.5 mm.
- Teufelberger KM III 13 mm.

9. Usage on a harness

9a. Descending

Gradually pull the handle to allow the rope to slide, always holding the brake side of the rope.

9b. Extra friction

Add friction if you have difficulty controlling speed, if the rope is new or slippery, or for any use with a heavy load or with two people.

To add friction, pass the rope through an extra carabiner connected to the ID L's carabiner, or through the auxiliary brake (sold separately).

WARNING: when using the open auxiliary brake, direct the rope so that it always stays in place inside the brake. Beware of twists or loops of rope that could cause the rope to come out of the brake.

9c. Stop position

Before letting go of the rope, make sure the handle has properly returned to the stop position. Beware of any rubbing against the structure or equipment that could prevent the return of the handle. If the handle is not in the stop position, it is exposed to accidental snagging that can cause unblocking.

9d. Occasional ascent

The ID L can be moved up the rope at any time, without manipulating the handle.

10. Usage on an anchor

The brake side of the rope must pass through a directional carabiner on the anchor or through the auxiliary brake (sold separately).

WARNING: when using the open auxiliary brake, direct the rope so that it always stays in place inside the brake. Beware of twists or loops of rope that could cause the rope to come out of the brake.

10a. Lowering

Gradually pull the handle to allow the rope to slide, always holding the brake side of the rope. During the descent, if there is too much friction (e.g. swollen or dirty rope that does not slide properly, light load), the rope can be removed from the external brake.

10b. Giving slack

While holding the brake side of the rope, press the cam with your thumb to allow the rope to slide. Pull the rope with the other hand.

10c. Stop position

Before letting go of the rope, make sure the handle has properly returned to the stop position. Beware of any rubbing against the structure or equipment that could prevent the return of the handle. If the handle is not in the stop position, it is exposed to accidental snagging that can cause unblocking.

11. Limitations on use

These Instructions for Use specify the essential limits to be observed for proper descender function, for example: mass, length, speed, compatible ropes.

Other factors can come into play, such as the condition of the rope (e.g. new ropes are often slippery) or the temperature of use (high heat reduces the braking effect).

The descender functions optimally under average use conditions. Performance will degrade if use conditions approach the essential limits. Under these extreme use conditions, there is a risk of losing control of the descent and/or damaging the rope.

You must be more alert and not hesitate to take special precautions (e.g. add friction, reduce speed, split the descent into shorter sections using intermediate anchors).

Limitations on use in the cold:

- 40° C under normal conditions.
- 4° C under exceptional cold and wet conditions (e.g. rain, water spray, condensation). These conditions can degrade the performance of your rope/descender combination.

12. Additional information

- The ID L is not suitable for use in a fall-arrest system.
- Any dynamic overload can damage the rope.
- You must have a rescue plan and the means to rapidly implement it in the event of difficulties encountered while using this equipment.
- The anchor point for the system should preferably be located above the user's position and meet EN 795 requirements (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 hitting the ground or an obstacle in the event 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 - DANGER:** make sure that your products do not come into contact with any abrasive materials, sharp objects, moving machinery or sources of electricity.
- Be vigilant if used in areas presenting risks of an electrical, thermal, chemical or any other nature.
- 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.
- Keep the Instructions for Use in a permanent file for reference after removing them from the equipment.
- Make sure the markings on the product are legible.

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, for example: harsh environments, marine environments, sharp edges, extreme temperatures, chemicals).

A product must be retired when:

- It has exceeded its lifespan.
- 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 (e.g. an illegible product marking).
- It becomes obsolete (for example, due to changes in legislation, standards, technique or incompatibility with other equipment).

Destroy these products to prevent further use.

Icons:

A. Unlimited lifespan - B. Acceptable temperatures - 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

Accessories

Open auxiliary brake: for occasional extra friction.
Closed auxiliary brake: for permanent extra friction (e.g. rescue kit).

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. Meets PPE regulatory requirements. Notified body performing the EU type examination
- b. Number of the notified body responsible for the production control of this PPE - c. Traceability: datamatrix - d. Rope diameter and working load limit - e. Serial number - f. Year of manufacture - g. Month of manufacture - h. Batch number - i. Individual identifier - j. Standards
- k. Read the Instructions for Use carefully - l. Model identification - m. Direction of the rope - n. Maximum descent length and operating temperature - o. Handle positions - p. NFPA/ANSI/ASSP certification body - q. Manufacturer address

