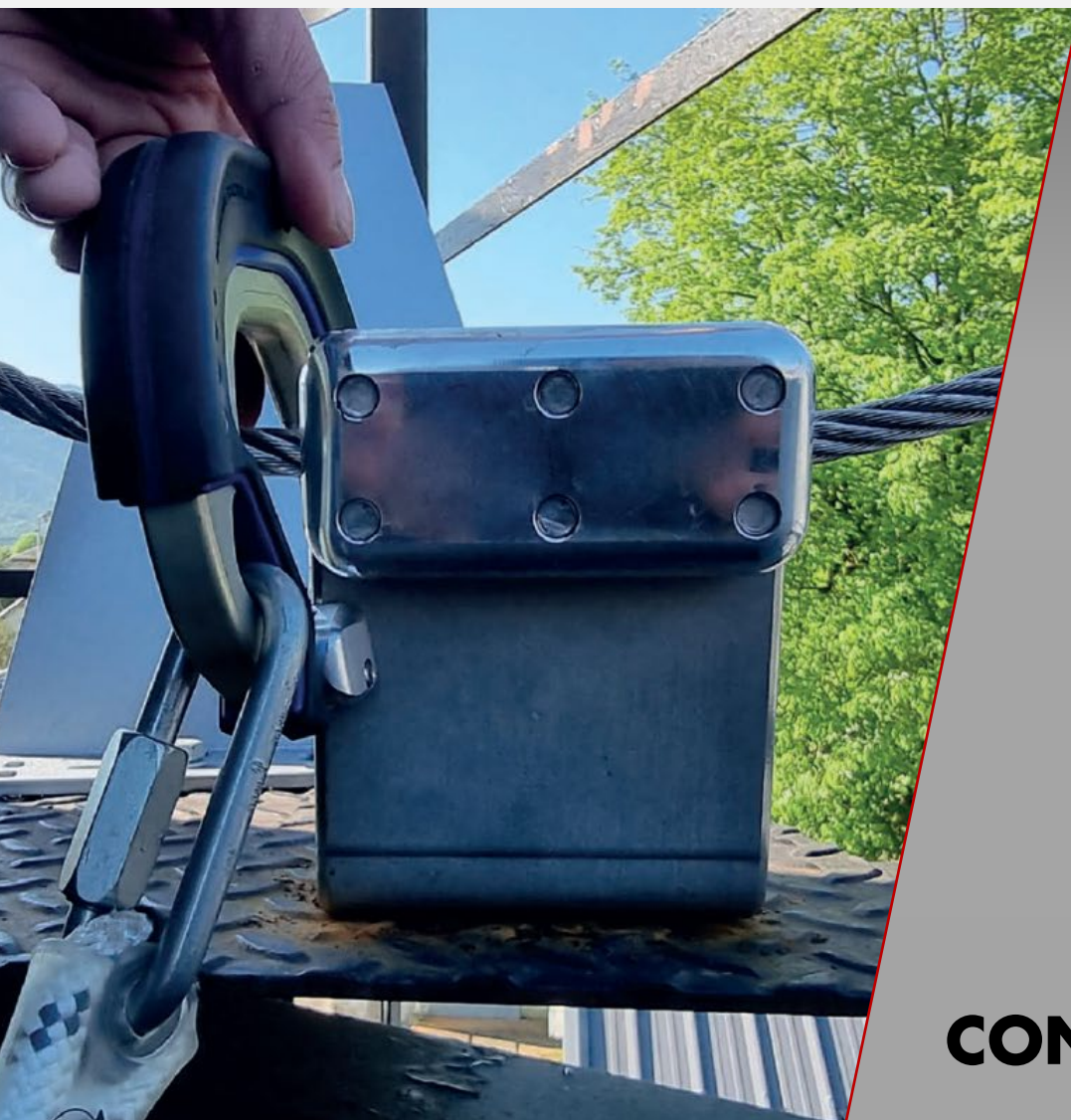


# TECHNICAL FILE ASSEMBLY INSTRUCTIONS INSTRUCTIONS FOR USE



VERSION :

**NOT-EN-114  
22-04-24**

## **CONEXT NEWPRO CONTINUOUS LIFELINE**

# CONEKT NEWPRO CONTINUOUS cable LDV manual

## 1. INTRODUCTION

The NEWPRO lifeline is a flexible horizontal belay system, designed and manufactured by Vert Voltige Innovation

It is distributed by L'Echelle Européenne in Saint Jean de Védas (France):

*L'Echelle Européenne SAS  
447 rue Henri Farman  
34430 SAINT JEAN DE VEDAS  
Tél : 0467 27 36 55  
E-mail: [info@echelle-europeenne.com](mailto:info@echelle-europeenne.com)  
Website: [www.echelle-europeenne.com](http://www.echelle-europeenne.com)*

It adapts to all types of angles and easily crosses curves, inside or protruding angles. It also fits all types of surfaces.

The NEWPRO continuous lifeline can be used for fixed or temporary installation.

The user inserts his OCHO PRO + hook at the entrance to the lifeline. He moves by passing through intermediate anchors which are intended to support the cable and take up the strength values.



In event of a fall, the hook on slides slightly on the wire, thus minimizing the risk of a swinging effect for the operator.

The NEWPRO lifeline is also designed to create multiple spans and paths using the X-MATRIX bifurcation crosses.



## IMPORTANT

The NEWPRO horizontal anchoring system has been tested by the ISO 17025 accredited laboratory Quintin Certifications and complies with the EN 795: 2012 regulation and the TS16415: 2013 type C technical specifications.

The NEWPRO lifeline is validated for use by up to 5 users simultaneously.

Its maximum span is 15 meters. The NEWPRO lifeline is to be used with a stainless steel 10mm wire of 7x19 strands and with a breaking value of 53.1kN.

The NEWPRO lifeline must be installed with a maximum angle 15° from the horizontal.

A hybridization of the lifeline (section 7) beyond the standard can however be implemented in order to push this angle up to 40°.

It must be used exclusively for fall protection, in accordance with the instructions in this manual.

The NEWPRO lifeline aims to control the risk of people falling by minimizing stress on the structure.

Therefore, it is essential, for the safety of installation and use of the equipment, and for its effectiveness, to read this manual, and to scrupulously follow its instructions before and during the installation and use of the lifeline.

The installer of the system is fully responsible for its assembly.

The manufacturer and distributor decline all responsibility in the event of incorrect assembly that does not comply with the instructions in this manual.

The manufacturer and/or distributor will provide, upon customer request, all necessary technical information regarding the product, the assembly method, the inspection process and the certificate of conformity of any system.

According to EN 365 regulations, the installed system must be subject to an annual inspection.

## REMARQUE

The system used to arrest a fall must be subjected to a detailed inspection by a competent and qualified technician.

The user must be equipped with a means to limit the maximum dynamic forces exerted on the user when arresting a fall, to a maximum value of 6 kN.

# CONEKT NEWPRO CONTINUOUS cable LDV manual

## 2. LIFELINE SPECIFICITIES

### APPLICATIONS

The NEWPRO lifeline system fits to every configuration :

- Factories.
- Roofs.
- Scaffolding.
- Complex hydroelectric pathways

It resists the most difficult environments thanks to a plurality of absorbers and anchors.

THIS REDUNDANCY IS, ON THE ONE HAND, SAFE IN THE EVENT OF BREAKAGE OF AN ANCHOR POINT, AND ON THE OTHER HAND IT DOES NOT RETURN ALL THE STRENGTH BETWEEN TWO POINTS, UNLIKE CONVENTIONAL LIFELINES WITH ENERGY ABSORBERS ONLY AT THE ENDS.

The NEWPRO continuous belay system is characterized by its simple and innovative set up.

Its primary function is to allow the user to never disconnect from the lifeline, including on complex paths and changes of spans that X Matrix, the bifurcation cross, provides.

The NEWPRO lifeline allows a swift assembly and securing of a site, in a very simple and efficient way.

The NEWPRO lifeline can fit to all angles simply by rotating the anchors, before tightening them.

The NEWPRO lifeline is used with the Ocho Pro+ safety hook, allowing you to never disconnect from the lifeline.

However, it can be used with carabiners (type EN 362).

In this context the lifeline will not be able to fulfill its function of guaranteeing possible operator errors.

Each part of the NEWPRO lifeline system is made in the french Pyrenees.

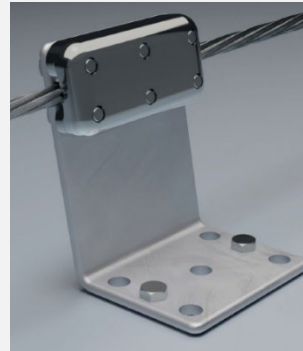
## 3. PARTS SHOWCASE

### 3.1 CABLE : Réf. A0015004



The CONEKT NEWPRO continuous lifeline cable is made up of 7 strands of 19 wires in 316 stainless steel.

### 3.2 NEWPRO : Réf. A0015000



Consisting of a stainless steel plate and a ready-to-install matrix. The matrix is specially machined to allow the cable to be oriented on either side.



It is versatile and can be used both at the entrance/exit of a lifeline and at an intermediate point.

The energy absorbed by sliding is very low.

#### DOUBLE ENERGY ABSORPTION

Sliding: an exclusive internal profile limits the stress on the structure.

Deformation: once maximum slippage has been reached, the plate continues its absorption work by deforming.

**CONFIGURATION WITH TURNS WITH NEWPRO :** If the bend is greater than 40°, the structural anchors must be doubled.

*Fixing to concrete: 2 stainless steel spits 10mm or 12mm (1 spit 12mm if intermediate point) (min length 120) + washers.*

*Fixing to interface: 2 M10 or M12 stainless steel bolts + washers. Use a counterplate if the support is too weak.*

### 3.3 X - MATRIX : Réf. A0015001



Multidirectional bifurcation cross that enables the user to go at ease in various areas without disconnecting from the line. It thus offers the possibility of doubling up to let a co-worker pass by without disconnecting.

### 3.4 OCHO PRO + : Réf. A0014999



Unique safety hook with automatic closing in the event of a fall in rotation or a damaged cable. All wear components are interchangeable. Its geometry is adapted to the passage of butt joints and other technical parts.

# CONEKT NEWPRO CONTINUOUS cable LDV manual

It offers strength of 30 kN.

The Ocho Pro+ hook has an interchangeable V wear. It is specially designed for intensive use.

## 3.5 RUPT : Réf. A0015002



Horizontal and vertical junction piece allowing all movements to be unified while limiting handling errors.

Without any possible disconnection of the lifeline, operators are always safe. The system is made of three parts : An entry and exit devices as well as an intermediate part to be connected to a fall arrest system.

## 3.6 A.FIX : Réf. A0014998



A.Fix is a multi-support anchor device allowing the connection of various elements as well as the closure of the lifeline.

## 3.7 X - CONE : Réf. A0015003



Fall arrest system that makes ascents and descents greater than 15° safer.

## 4. REGULATIONS AND ASSOCIATED EQUIPMENTS

The lifeline meets the requirements of EN 795: 2012 regulations and technical specification TS16415: 2013 type C.

In accordance with the EN 363 standard, compatible products are:

- An anchoring device (EN 795).
- A connector (EN 362).
- A fall arrest lanyard (EN 355).
- A fall arrest harness with dorsal attachment point or sternal (EN 361).

The NEWPRO lifeline must be used with the OCHO PRO + hook, allowing you to never disconnect from the lifeline. However, a conventional system can be used and must be

connected to the lifeline using EN 362 carabiners placed on the cable. It is then recommended to use an EN 355 twin leg lanyard equipped with 2 EN 362 carabiners. Each time you pass the entry/exit or intermediate anchors, care must be taken to detach only one carabiner at a time. A first carabiner is first passed to the other side of the anchor and connected to the cable, before detaching the other to pass the anchor. It is essential to always have at least one carabiner on the lifeline.

The NEWPRO lifeline must only be used with equipment (harness, lanyard, etc.) bearing the CE marking and used in accordance with the manufacturer's recommendations.

The fall arrest harness is the only gripping device authorized for use in a fall arrest system.

## 5. GENERAL MOUNTING INSTRUCTIONS

### 5.1 OPERATING MODES

Before any assembly, it is imperative to scrupulously follow the instructions in this manual. The mounting rules differ depending on the type of support

#### Rigid support mounting rules:

- Up to 5 users.
- Slopes less than 15° (except in case of hybridization).
- When an angle greater than 40° is positioned on the line it is mandatory to install 2 anchors.
- Maximum spans of 15 m.
- Minimum length 3 m (no maximum length)
- Connection to the lifeline with OCHO PRO + HOOK. Possibility to use a twin legged lanyard with carabiners.

# CONEKT NEWPRO CONTINUOUS cable LDV manual

## Generalities:

In case of storage before installation, the components must be stored in a clean and dry place. Likewise during transport, the components must be protected from any crushing or shock. Anchoring devices must be installed in such a way that they can be removed from the structure, without damaging any part, thus allowing its reuse.

Position the lifeline so that it is visible to the operator of the fall arrest device. The lifeline can be placed on a vertical, horizontal or inclined support. The inclination of the cable must be less than 40°.

All components have been tested by an inspection office and meet the requirements of the BS EN-795-C 2012 regulation. The installation of the NEWPRO lifeline will be carried out

professionally and in accordance with the recommendations of the manufacturer of the fixing elements.

The intermediate and end components will be fixed to their support using 12 mm diameter stainless steel screws offering a minimum shear breaking load of 2000 daN.

The maximum strength likely to be transmitted by the anchoring devices is defined by the strength and cable sag tables in section 5.3 of this manual. If fixing in steel or wood, a competent technician must verify by calculation that the design and assembly datas comply with BS EN-795-C 2012 (the support must resist twice the strength indicated in table section 5.3). For concrete or stone, it is imperative to use either through studs or chemical fixings. It is then necessary to test the quality of the installation by a pull-out test at 500daN for 15 seconds. This test should be performed before installing the anchors. Performing this test with the lifeline components in place would result in deformation of the anchorage.

For wood, it is mandatory to use through rods or counterplates. If fixing in other materials, the installer must verify the suitability of the structural materials either by a calculation note or by a testing methodology.

If specific interfaces must be designed, the installer must have them dimensioned by a competent person. These interfaces must be properly treated against corrosion. Any modification to the equipment or any addition to the equipment cannot be made without the prior written consent of the installer, any repair must be carried out in accordance with the operating procedures of Vert Voltige Innovation.

A sign indicating the presence of anchors in the secure area must be placed near the anchors or at access points to the area. This panel must be completed after assembly and after each periodic inspection. It also serves as an identification sheet.

## a) Set up of the lifeline

NEWPRO lifelines are assembled with the following material:

- A 19 mm and 17 mm torque wrench.
- A 13 mm wrench for matrix.
- A size 4 Allen key.
- An impact wrench.
- A crimper with Aluminum sleeves.
- A cable tensioner.
- A cable cutter or portable grinder.
- A meter to measure cable tension.
- High strength threadlocker glue for all M8, M10 and M12 bolts and screws.

The installation of NEWPRO lifeline is carried out by the following operations:

1. Installation of structural anchors
2. Setting up the packs (if necessary)
3. Fixing and tensioning the cable in the matrix.

This implementation is fully detailed in section 6 of this manual.

## b) RUPT installation

C This 3-piece kit allows you to couple a horizontal and vertical lifeline without ever disconnecting. RUPT consists of 3 parts: 1 entry part, 1 intermediate part and 1 exit part. When coupling between a horizontal and vertical lifeline, the RUPT is positioned according to the following method..



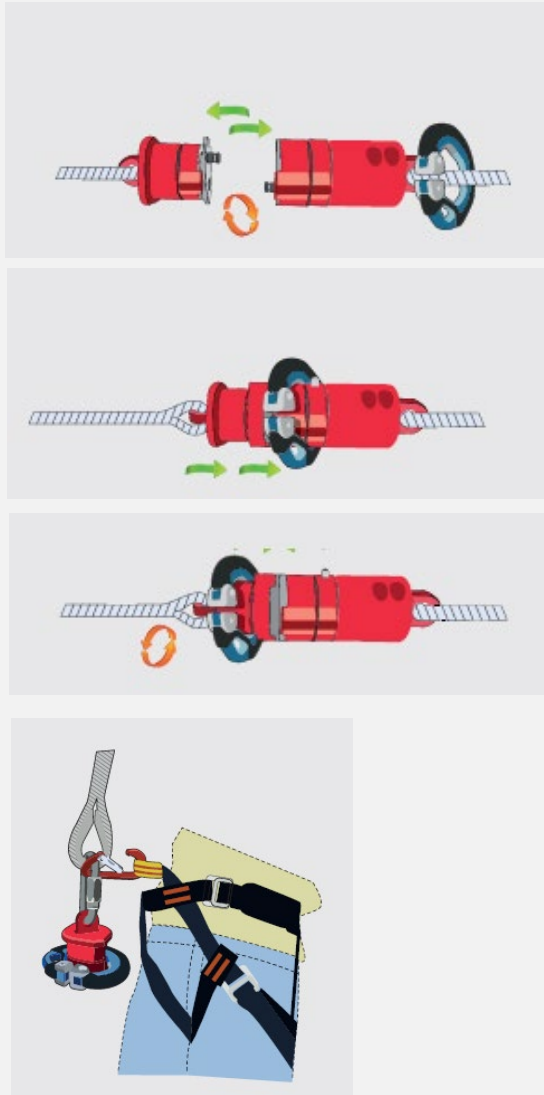
**Entry :** A crimped loop is made after the entry/ exit point of the matrix while leaving 20 cm of slack. The entry part is positioned, using a 10 mm stainless steel quick link, in this loop.

**Intermediate :** The intermediate piece is connected with a 10 mm stainless steel quick link, to any interface allowing security during vertical ascent (retractable fall arrester, trolley, etc.).

**Note :** the fall arrest system must be directly connected to the harness at the sternal or dorsal points noted A or A/2 in accordance with the manufacturers instructions. It is prohibited to connect the hook directly to the RUPT only by the lanyard

# CONEKT NEWPRO CONTINUOUS cable LDV manual

**Exit:** At the end of the ascent, the exit piece is positioned identically to the entry piece. This piece allows you to start again on a horizontal lifeline. The outlet part is characterized by its push pin located in the middle of the body

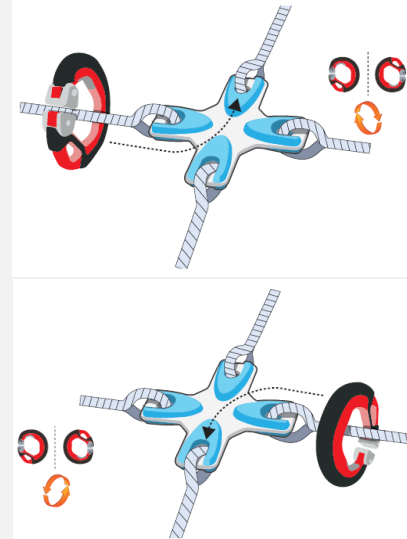


## c) X – MATRIX installation

The X-Matrix bifurcation crosses are used in the middle of a span to split the cable into 4 sections. The use of a crimper is mandatory. Identify the installation area for the X.Matrix cross. Once the installation area has been chosen, insert the stainless steel thimble into X-Matrix and sheath the cable with crimping pliers. X.Matrix bifurcation cross must be positioned between 2 anchors.



Principe d'utilisation des X-MATRIX



## 5.3 STRENGTH VALUES ON STRUCTURES

| NEWPRO 80 PACK  | 1<br>personne | 5<br>personnes |
|------------------------------------------------------------------------------------------------------|---------------|----------------|
| SMALL SPAN (FROM 3 TO 8 METRES)                                                                      |               |                |
| MAX STRENGTH (IN DAN)                                                                                | 960           | 1300           |
| MAX CABLE SAG (IN MM)                                                                                | 490           | 600            |
| LARGE SPAN (FROM 8 TO 15 METRES)                                                                     |               |                |
| MAX STRENGTH (IN DAN)                                                                                | 1370          | 1450           |
| MAX CABLE SAG (IN MM)                                                                                | 1300          | 2100           |
| TURNS OR ENTRY/EXIT                                                                                  |               |                |
| MAX STRENGTH (IN DAN)                                                                                | 820           |                |

# CONEKT NEWPRO CONTINUOUS cable LDV manual

## 6. MOUNTING NEWPRO LIFELINE

The new professional range offers versatility combining ease of installation and an unrivaled level of safety.

It both can be installed temporarily and permanently, with single or multiple spans.

It can be used by up to 5 users simultaneously

### THIS IS NEWPRO :

- The guarantee that operators remain permanently connected to the lifeline.
- The possibility of evolving on slopes greater than 15°, thanks to the hybridization of the lifeline (see usage limits, chapter 9).
- Easy installation with few tools.

### a) SET UP OF THE ANCHORS AND THE LIFELINE

Proper implementation of the system is very important for safety and usage.

**IMPORTANT !** In case of turns greater than 40°, the structural anchors should be doubled.

Installation of the NEWPRO packs (figures 6.1, 6.2, 6.3)

Setting up NEWPRO packs is extremely simple. It is carried out in the same way regardless of its mounting support (wall, floor, post, etc.).

It consists of first installing the stainless steel plate using the side holes provided for this purpose, either on an anchor or by drilling the support.

If the NEWPRO pack is installed as an intermediate anchor, it can only be fixed on one point (central drilling of the plate). If installed on CONEKT plate, it will be necessary to fix the matrix with 1 M12 x 30 stainless steel bolts + washer.

The cable is then placed between the stainless steel plate and the aluminum matrix. Screws are tightened to the limit with high strength threadlocker.

The lifeline cable is tensioned between 0.5 and 0.8kN maximum, either by arm strength or using a tensioning device. The tension can be checked using a dynamometer.

In certain cases (installation on posts, etc.), the installation of a counterplate is necessary.



Figure 6.1

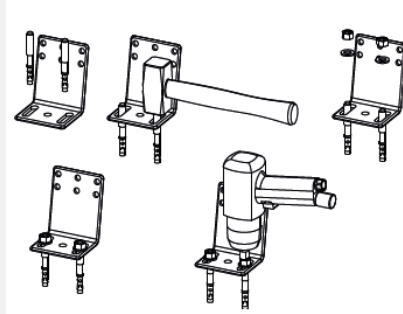


Figure 6.2

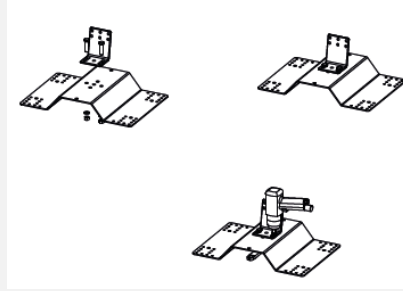
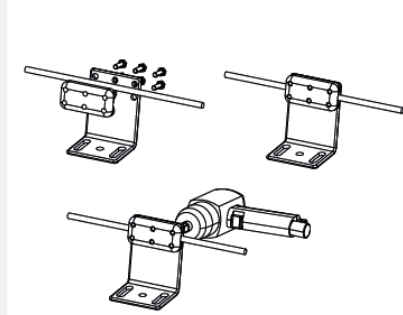


Figure 6.3

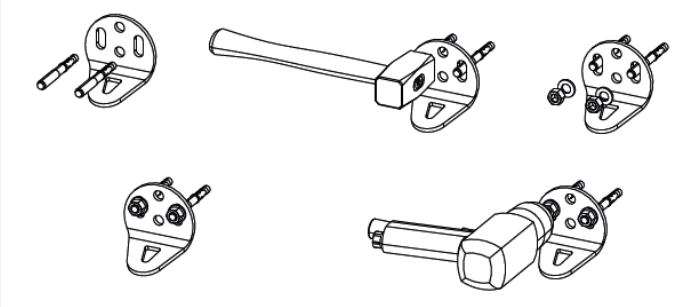


# CONEKT NEWPRO CONTINUOUS cable LDV manual

## b) Installation of A.FIX (figure 6.4)

Place the A.FIX anchor on the wall or floor using 2 chemical fixings M12, offering a minimum shear breaking strength of 20 Kn. In case of installation on a metal platform, the A.FIX can be fixed using 4 M12 stainless steel bolts with washers on each side of the support. Drill holes on the metal platform will need to be cleaned and free from all traces of iron filings to avoid rust.

Figure 6.4



## c) Installing the cable on the lifeline



Each point must have a NEWPRO pack. Place the stainless steel plates on the bollard of your choice or directly on the support, with M12 fixings, high strength

threadlocking and supplied washers, tightening to the stop. You get the desired angle of the lifeline by simply rotating the plates.

Position the 7\*19 10mm stainless steel cable and the matrix.

The cable is positioned in the housing provided inside the matrix. In the event of an angle greater than 40°, a doubling of the structural anchors is necessary.

The lifeline cable must be tensioned between 0.5kN and 0.8kN maximum, either by arm strength or using a tensioning device. The tension can be checked using a dynamometer.

Proceed with tightening with the following instructions: The matrix points are tightened to the stop, with the M10 stainless steel screws provided + high strength threadlocking.

- The cable must exceed 20 cm from the NEWPRO packs at the ends of the lifeline. It must be crimped with a loop. This loop should allow the hook to be inserted freely.
- 
- 

- Make an indelible mark on the cable when it comes out of the NEWPRO pack. This mark will act as an indicator in the event of a fall and cable slipping.

## d) Closure of the lifeline

In certain cases it is sometimes necessary to close the lifeline at one end (access passages at the end of the roof, identical entry and exit points, etc.).

The line can be closed using a cable loop connected to an M12 eyebolt fixed to a bollard or to an A.FIX.

## 7. HYBRIDIZATION OF THE LIFELINE

Thanks to the X-CONE, a hybridization of the lifeline can be carried out, making it possible to create slopes between 15° and 40°.

Although this hybridization exceeds the EN 795C regulation (not allowing slopes greater than 15°), the system tests were carried out according to the specifications established by Vert Voltige Innovation, by the ISO 17025 accredited laboratory Quintin Certifications and amply proven by releasing weights of 100 kg, well beyond our assembly requirements.

### 7.1 X – CONE



The X-CONE make it possible to secure slopes greater than 15°. The range of use is: one X-CONE every meter for a slope ranging from 15 to 30°. Every 50 cm for a slope between 30 and 40°.

### 7.2 X – CONE INSTALLATION

They attach to the lifeline cable using their 4 M5 SHC head screws tightened as much as possible.

The tip of the cone should point down the slope.

# CONEXT NEWPRO CONTINUOUS cable LDV manual

## 8. USAGE LIMITS

- In the event of an operator falling, the significant sagging of the cable acts as a fall indicator.
- The NEWPRO lifeline is exclusively intended for attaching a personal protection system against falls from height and not for lifting equipment.
- For safety reasons, it is essential to check the clearance under the user before each use, so that in the event of a fall, there is no risk of collision with the ground or any other obstacle.
- For any specific application, do not hesitate to contact VERT VOLTIGE INNOVATION.
- The durability of the belay system is directly linked to the quality of the support. As such, compliance may only be established if its constituent parts are free from any manufacturing defects and if its performance has not dropped as a result of use (aging, excess loads, chemical attacks, adverse weather, etc.).
- For user safety, if the product is re-sold in a country other than the first country in which it was sold, the seller must provide a version of the instruction manual and instructions on maintenance, regular checks and guidelines relating to repairs in the language of the country in which the product is to be used..
- No modifications or additions may be made to the equipment without prior written approval from the manufacturer. Furthermore, all repairs must be carried out in accordance with the manufacturer's operating methods.
- Only competent individuals who have been given the appropriate training may use the NEWPRO system.
- Users must be in good health, be in possession of all of their faculties and must not go against any medical advice.
- It is recommended that you do not use type C anchor devices combined with automatic recall fall arrest systems (EN 360) or guided fall arrest systems which feature a flexible belay support (EN 353-2) if these have not been subject to tests together.
- Both the hook and the lifeline should be kept away from any sharp edges
- The hook and the lifeline should not be exposed to chemicals or subjected to electrical conductivity, cuts or abrasion.
- The hook and lifeline must not be used if it is freezing, in stormy weather or in adverse weather conditions (wind, storm).
- The equipment must not be used for any purposes other than those it was designed for.
- A safety plan must be put in place for any incidents that may occur during work.
- In the event of a rescue operation on the lifeline, deformation under load must be factored in. See the guidelines in section 4.3 - Strength values on structurest
- For fall arrest systems, for safety reasons, both the device and the anchoring point must always be correctly positioned, and given work must ensure that the risk of falls (and the height of falls) is kept to a minimum.
- The lifeline must be immediately put out of order: - If there is a doubt about safety, - If it was used to stop a fall. It must not be used again until a competent person has authorized its reuse in writing.

# CONEKT NEWPRO CONTINUOUS cable LDV manual

## 9. INSPECTION AND MAINTENANCE

### MAINTENANCE

- The lifeline does not require any special maintenance.
- Cleaning of lifeline components should be done with soap and water. No chemicals should be used.

### ASSEMBLY CHECK

- An assembly check must be carried out following the instructions in Appendix 12.3 – Mounting check list.
- An information and control panel must be installed and completed for each lifeline. This panel lists the main safety instructions, the date of installation, the type of equipment and the date of the last inspection carried out. This panel is presented in appendix 12.1 - Signage.
- An identification sheet for the lifeline with details of all the parts must be produced according to the model presented in Appendix 12.5 – Identification sheet

### CONTRÔLE AVANT CHAQUE UTILISATION

- Before each use of the lifeline, a check of its apparent good condition is necessary (lack of deformation or corrosion, good tightening, etc.). This check consists of analyzing the general good condition of the lifeline components (checking the tension of the cable, entry/exit anchors, cable, intermediate bollards and anchors, mobile anchors).
- It is necessary to check each component before use. Indeed, the safety function of one of the components may affect or interfere with another component.
- If a component is damaged, the lifeline must no longer be used. It must be condemned and defective components must be replaced after checking the structure.

### CHECKS BEFORE EACH USE

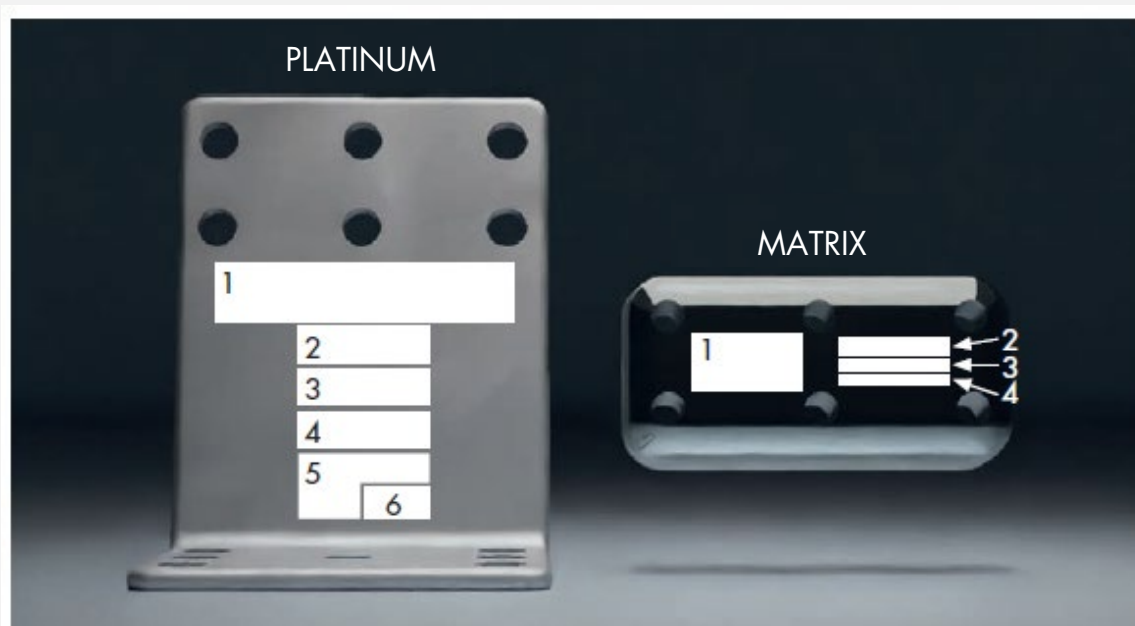
- Before each use of the lifeline, a check of its apparent good condition is necessary (lack of deformation or corrosion, good tightening, etc.). This check consists of analyzing the general good condition of the lifeline components (checking the tension of the cable, entry/exit anchors, cable, intermediate bollards and anchors, mobile anchors).
- It is necessary to check each component before use. Indeed, the safety function of one of the components may affect or interfere with another component.
- If a component is damaged, the lifeline must no longer be used. It must be condemned and defective components must be replaced after checking the structure.

# CONEKT NEWPRO CONTINUOUS cable LDV manual

## 10. TRACEABILITY AND IMPRINT

Imprints on each components guarantee full traceability of the NEWPRO system.

### SI IMPRINTS MEANINGS ON NEWPRO PACK



#### MARKING ON THE STAINLESS STEEL PLATE

|                                    |                                                                                         |
|------------------------------------|-----------------------------------------------------------------------------------------|
| 1. Part number                     | INOX NEWPRO                                                                             |
| 2. Batch number                    | XX NNNNN                                                                                |
| 3. Manufacturer's brand            | L'Echelle Européenne                                                                    |
| 4. Standard reference and type     | EN 795 : 2012 Type C - TS 16415 : 2013                                                  |
| 5. Number of users                 |  X 5 |
| 6. Read instructions for use' logo |      |

#### MARKING ON THE MATRIX

|                              |                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------|
| 1. Manufacturer's brand logo |  |
| 2. Part number               | MAC NEWPRO                                                                           |
| 3. Cable diameter            | Wire rope ø 10mm                                                                     |
| 4. Batch number              | XX NNNNN                                                                             |

# CONEKT NEWPRO CONTINUOUS cable LDV manual

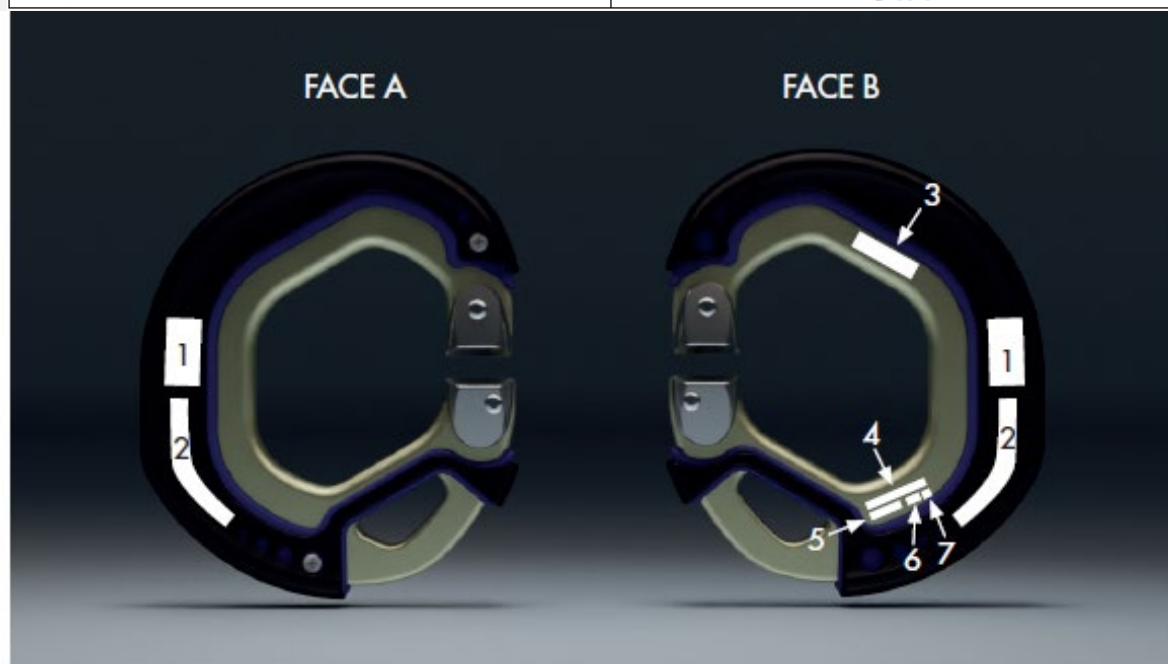
## IMPRINTS MEANINGS ON OCHO PRO + HOOK (MOBILE ANCHOR DEVICE)

### FACE A

|                        |                                                                                    |
|------------------------|------------------------------------------------------------------------------------|
| 1. Hook logo           |  |
| 2. Manufacturer's name | L'Echelle Européenne                                                               |

### FACE B

|                                     |                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------|
| 1. Hook logo                        |       |
| 2. Manufacturer's name              | L'Echelle Européenne                                                                    |
| 3. Part number                      | OCHO PRO +                                                                              |
| 4. Individual identification number | MMAA-XXXX                                                                               |
| 5. Normative reference and type     | EN 795 : 2012 Type C                                                                    |
| 6. Read instructions for use' logo  |      |
| 7. Number of users                  |  X 1 |



# CONEKT NEWPRO CONTINUOUS cable LDV manual

## 11. APPENDICES

### 11.1 SIGNAGE

**REF : A0015171 / PRO.PANNEAU**

A sign (right) must be positioned at the entrance to the lifeline. It can be glued or fixed using self-drilling screws or rivets. It provides the necessary information to users, including the number of people per lifeline, the date of the last check and the recommended PPE.

It is the identity card of the lifeline. To be informed:

- The name of the installer,
- The max users number,
- The length of the lifeline,
- The installation date,
- The kind of PPE recommended by the installer,
- The installation and inspection dates.

### 11.2 WARRANTY AND WARRANTY LIMIT

NEWPRO lifeline components are guaranteed against any manufacturing defect. The warranty extends to the replacement of parts deemed defective. This warranty is applicable for 5 years.

The warranty does not apply:

- Support materials,
- Parts damaged following a qualification test or use of the line outside specifications,
- Assembly. All parts are treated against corrosion and UV rays .

## NEWPRO

by L'Echelle Européenne

*Ligne de vie continue monocâble sur potelet,  
mur ou sol EN 795 Type C*

- 1 - Suivre strictement les recommandations d'utilisation précisées dans la notice.
- 2 - Faire une vérification visuelle du bon état apparent avant utilisation.
- 3 - Vérifier l'espace libre requis sous l'utilisateur avant utilisation.
- 4 - Utiliser du matériel (harnais, longe...) approprié et normalisé.
- 5 - Ne pas utiliser si le dernier contrôle remonte à plus de 12 mois.
- 6 - En cas de chute, ne plus utiliser et faire vérifier obligatoirement l'ensemble de l'installation par une personne compétente.

| Date d'installation | Nombre d'utilisateurs<br>maximum | Installateur |
|---------------------|----------------------------------|--------------|
| -----               | <b>5</b>                         | -----        |

|                                             |                                                                                                               |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Longueur de la ligne de vie</b><br>----- | <b>EPI Préconisé</b><br>Crochet Ocho Pro + couplé à avec longe et harnais EN 365. Port du casque obligatoire. |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------|

| DATES DE CONTROLES | NOMS ET SIGNATURES |
|--------------------|--------------------|
| — — — — —          | — — — — —          |
| — — — — —          | — — — — —          |
| — — — — —          | — — — — —          |
| — — — — —          | — — — — —          |
| — — — — —          | — — — — —          |

Contact : L'Echelle Européenne  
 Parc Marcel Dassault, 447, rue Henri Farman, 34430 SAINT JEAN DE VEDAS  
 Tel. 04.67.27.36.55 - Email : info@echelle-europeenne.com  
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# CONEKT NEWPRO CONTINUOUS cable LDV manual

## 11.3 MOUNTING CHECK LIST

In order to guarantee the correct installation of the NEWPRO lifeline, the installer must complete the mounting check list, an example of which is given below.

# NEWPRO

by L'Echelle Européenne

## MOUNTING CHECK LIST

| Lifeline Number # | Date of commissioning | Installer |
|-------------------|-----------------------|-----------|
| -----             | -----                 | -----     |

| CHECK LIST                                                                                                                    | YES | NO | NOTES |
|-------------------------------------------------------------------------------------------------------------------------------|-----|----|-------|
| Structural anchors: Chemical sealed anchors have been tested to the extractor (500daN for 15s).                               |     |    |       |
| NEWPRO packs have been tighten to the stop.                                                                                   |     |    |       |
| Each anchor (entry/exit) has a loop with 20 cm of cable in reserve.                                                           |     |    |       |
| The cable is in good condition: no crush, untwist or cut wires.                                                               |     |    |       |
| The tension of the lifeline is correct.                                                                                       |     |    |       |
| Threadlocker was put on the screws.                                                                                           |     |    |       |
| Crimping elements include 4 crimps (X.Matrix).                                                                                |     |    |       |
| Control and information signs are completed and installed at the entrance to the lifeline (in accordance with Appendix 12.1). |     |    |       |

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# CONEKT NEWPRO CONTINUOUS cable LDV manual

## 11.4 ANNUAL INSPECTION SHEET

It is mandatory to carry out an annual inspection of the entire NEWPRO lifeline by following the instructions in the annual inspection sheet below



### ANNUAL INSPECTION SHEET

| Lifeline Number # | Date of commissioning | Controller |
|-------------------|-----------------------|------------|
| -----             | -----                 | -----      |

| CHECK LIST                                                                                                      | YES | NO | NOTES |
|-----------------------------------------------------------------------------------------------------------------|-----|----|-------|
| The structural anchors are well fixed (checking the tightness) and in good condition (no rust, deformation...). |     |    |       |
| NEWPRO packs are well fixed (tighten to the stop) and in good condition (no rust, deformation...).              |     |    |       |
| Each anchor (entry/exit) has a loop with 20 cm of cable in reserve.                                             |     |    |       |
| The cable is in good condition: no crush, untwist or cut wires.                                                 |     |    |       |
| The tension of the lifeline is correct.                                                                         |     |    |       |
| Markings of all parts are readable.                                                                             |     |    |       |
| X.MATRIX elements have 4 crimps in good condition.                                                              |     |    |       |
| No falls occurred on the lifeline.                                                                              |     |    |       |
| The PPE annual inspection sheet is up to date.                                                                  |     |    |       |
| The information and control sign is well installed, completed and legible.                                      |     |    |       |

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# CONEKT NEWPRO CONTINUOUS cable LDV manual

## 11.5 IDENTIFICATION SHEET

An identification sheet for the lifeline with details of all the parts must be produced following the model below.

**NEWPRO**  
by L'Echelle Européenne

### IDENTIFICATION SHEET

**Place of installation of the lifeline  
(name and contact details):**

**Installer (name and contact details):**

-----

-----

**Lifeline Number #**

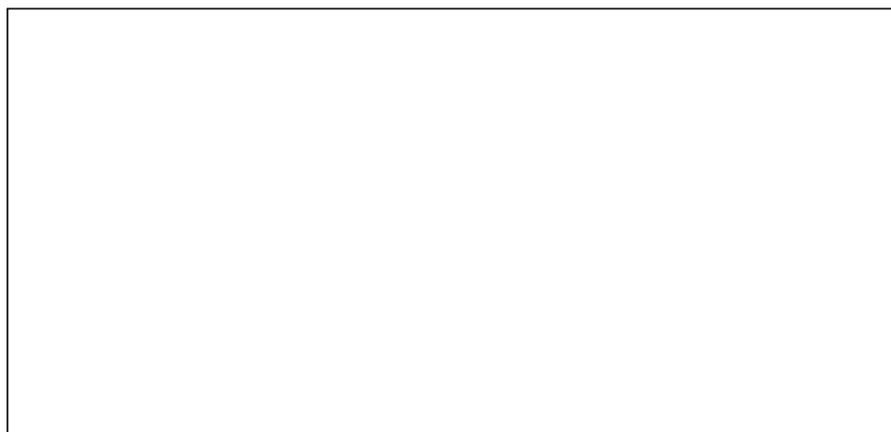
**Manufacture date**

**Equipment  
purchase date**

**Date of  
commissioning**

-----

**Configuration diagram with name of installed components:**



*This diagram must be affixed to the location where the lifeline is installed, so that it is accessible to everyone.*

**Date :**

**Name and signature of the competent person**

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# CONEKT NEWPRO CONTINUOUS cable LDV manual

## 14. PRODUCT DATA SHEETS

### ANCHOR FOR STATIC LIFELINES

Reference : A0015000 / NEWPRO



*Multifunctional anchor made up of a stainless steel plate and a ready-to-install matrix. The matrix benefits from specific machining, allowing the cable to be oriented on each side. It is versatile and can be used both as entry or exit anchorage point as well as an intermediate point. The energy absorbed by sliding offers very low figures.*

#### DOUBLE ENERGY ABSORPTION

*Sliding: an exclusive internal profile limits the stress on the structure. Deformation: once maximum slip has been reached, the plate continues to absorb energy by deforming.*

|                |                                           |
|----------------|-------------------------------------------|
| Material :     | Stainless steel NEWPRO 80<br>Aluminium    |
| Homologation : | NF EN795 :2012 type C<br>& TS :16415/2013 |
| Weight :       | 1230g                                     |

### BIFURCATION CROSS

Reference : A0015001 / X-MATRIX



*Description: Multi-directional bifurcation cross that can be used to navigate through various zones without disconnecting from the cable or handling it. It can also be used to pass a team member without disconnecting from the rope.*

|                     |                                                    |
|---------------------|----------------------------------------------------|
| Composition :       | 316L stainless steel base plate<br>Aluminium stops |
| Working load :      | 30 kN                                              |
| Breaking/slip load: | 90 kN                                              |
| Homologation :      | NF EN795 :2012 type C<br>& TS :16415/2013          |
| Weight :            | 1010g                                              |

# CONEKT NEWPRO CONTINUOUS cable LDV manual

## CONEKT CONTINUOUS LIFELINE CABLE

Reference : A0015004



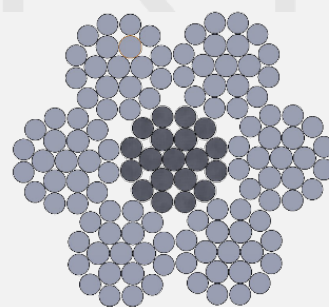
*Description: Flexible cable made up of 7 strands of 19 wires in 316 stainless steel.*

*With their fine braided appearance, they are extremely flexible and easy to install. They accept large bending radii for small cross-sections. It is, however, sensitive to elongation.*

*When your cable is wound on a reel, unwind it using a spinner or a support axle.*

*Avoid dragging the cable along the ground.*

|                |                                           |
|----------------|-------------------------------------------|
| Composition :  | EN 12385-4 Inox<br>Aisi 316               |
| Resistance :   | 53,1kN                                    |
| Homologation : | NF EN795 :2012 type C<br>& TS :16415/2013 |
| Weight :       | 37,5 kg / 100m                            |



## HORIZONTAL AND VERTICAL CONNECTING PIECE

Reference : A0015002 / RUPT



*Description: Horizontal and vertical junction piece to unify all movements and limit handling errors.*

*Operators will always be safe because it is impossible to detach themselves from the lifeline.*

*The system is made up of three parts: an entry, an exit and an intermediate part to be coupled with a mobile or self-retracting fall arrester.*

|                |                                           |
|----------------|-------------------------------------------|
| Composition :  | Inox 316L / Aluminium                     |
| Homologation : | NF EN795 :2012 type C<br>& TS :16415/2013 |
| Poids :        | 2430g                                     |

# CONEKT NEWPRO CONTINUOUS cable LDV manual

## MULTI-SUPPORT ANCHORING

Reference : A0014998 / A.FIX

*Description: The A.FIX is a multi-support anchor for connecting various elements and closing the lifeline.*



|                 |                                           |
|-----------------|-------------------------------------------|
| Composition :   | Inox 316L                                 |
| Breaking load : | 54,7 kN                                   |
| Homologation :  | NF EN795 :2012 type C<br>& TS :16415/2013 |
| Weight:         | 423g                                      |

## FALL ARREST STOP

Reference : A0015003 / X-CONE

*Description: X-CONE is used to secure ascents and descents greater than 15°.*

*The range of use is: an X-CONE every metre for a gradient of between 15 and 30°. Every 50 cm for a gradient of between 30 and 40°.*



|                |                                           |
|----------------|-------------------------------------------|
| Composition :  | Aluminium                                 |
| Diameter :     | 50 mm                                     |
| Homologation : | NF EN795 :2012 type C<br>& TS :16415/2013 |
| Weight :       | 250g                                      |

# CONEKT NEWPRO CONTINUOUS cable LDV manual

## SAFETY HOOK

Reference : A0015000 / OCHO PRO+



*Description: The world's only safety hook with automatic closure in the event of a rotating fall or damaged cable. All wear components are interchangeable.*

*Its geometry is adapted to the passage of joiners and other technical parts. It has a strength of 30 kN.*

*Ocho Pro + has an interchangeable wear V.*

*It is specially designed for intensive use.*

|                |                                           |
|----------------|-------------------------------------------|
| Composition :  | Plastic bi-injection                      |
| Resistance :   | 30 kN                                     |
| Homologation : | NF EN795 :2012 type C<br>& TS :16415/2013 |
| Weight :       | 363g                                      |

## ACCESS SIGN

Reference : A0015171 / PRO.PANNEAU



by L'Echelle Européenne

Ligne de vie continue monocablé sur potelet,  
mur ou sol NF EN 795 Type C

- 1 - Suivre strictement les recommandations d'utilisation précisées dans la notice.
- 2 - Faire une vérification visuelle du bon état apparent avant utilisation.
- 3 - Vérifier l'espace libre requis sous l'utilisateurs avant utilisation.
- 4 - Utiliser du matériel (harnais, longe, ...) réparé et normalisé.
- 5 - Ne pas utiliser si le dernier contrôle remonte à plus de 12 mois.
- 6 - En cas de chute, ne plus utiliser et faire vérifier obligatoirement l'ensemble de l'installation par une personne compétente.

| Date d'installation | Nombre d'utilisateurs maximum | Installateur |
|---------------------|-------------------------------|--------------|
|                     | 5                             |              |

Longueur de la ligne de vie EPI Précautionné

Crochet Ocho Pro + couplé à avec longe et harnais EN 365. Port du casque obligatoire.

| DATES DE CONTROLES | NOMS ET SIGNATURES |
|--------------------|--------------------|
|                    |                    |
|                    |                    |
|                    |                    |
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|                    |                    |
|                    |                    |
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*Description: Sign indicating the presence of a fall arrest system NF EN 795.*

*This sign is positioned at the access points to the secure area.*

|                |                                           |
|----------------|-------------------------------------------|
| Composition :  | Aluminium                                 |
| Finish :       | Screen printing and UV treatment          |
| Homologation : | NF EN795 :2012 type C<br>& TS :16415/2013 |
| Poids :        | 20g                                       |