

USER INSTALLATION
FOR VERTICAL LIFELINE

OF A MOBILE FALL ARRESTER ON VERTICAL RIGID BELAY SUPPORT (AMSAR)
(universal "vertical lifeline")

REFERENCES LIST:

- Ref. AN801 = 2 AN801UNI + 1 AN801TEN
- Ref. AN802
- Ref. LDVV04 : 1 AN801+ 1 AN024 + 3 AN025
- Ref. LDVV06 : 1 AN801+ 1 AN024 + 5 AN025
- Ref. LDVV08 : 1 AN801+ 1 AN024 + 7 AN025
- Ref. LDVV10 : 1 AN801 + 1 AN802 + 1 AN024 + 9 AN025
- Ref. LDVV12 : 1 AN801 + 1 AN802 + 1 AN024 + 11 AN025.

1/ DESCRIPTION OF PRODUIT & IMPORTANT POINTS:

Host structure can resist at least at 15 kN.

All the upper anchor point installed must be positioned over the user.

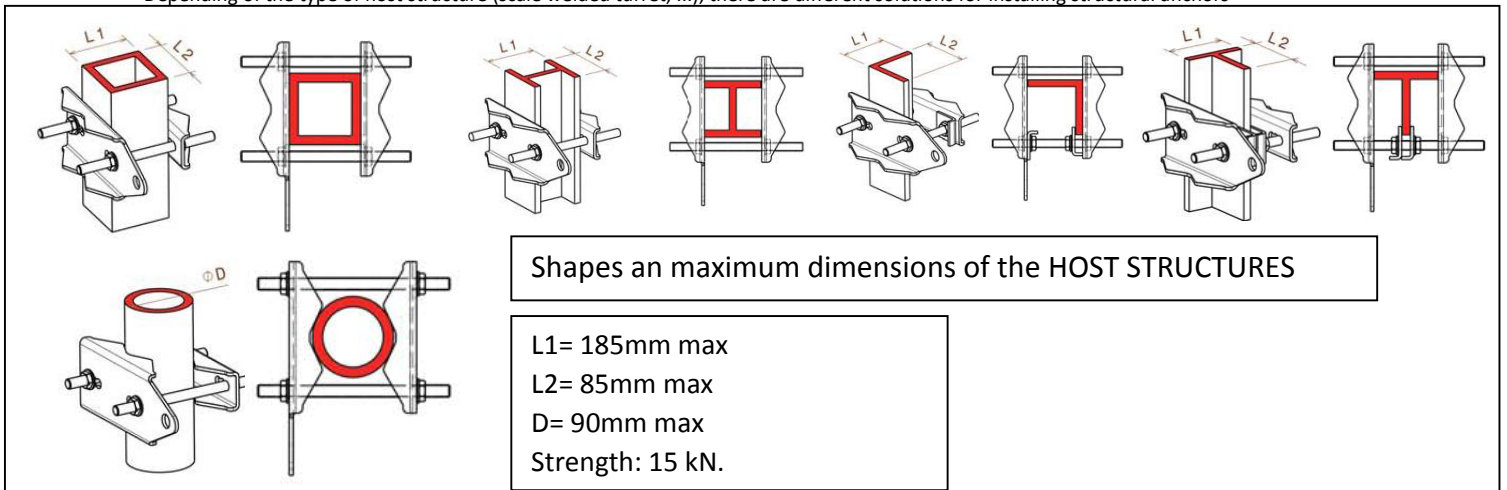
The vertical lifeline has to be used by one person only.

An overall support belay system consists of several elements. These elements may be interactions between them may affect the safety function of the other elements.

To avoid danger, the user must ensure the proper implementation of each element of the overall system safety support.

The installer must take all measures to protect against falls from a height in order to make a safe installation elements in height.

Depending of the type of host structure (scale welded turret, ...), there are different solutions for installing structural anchors



DESCRIPTION: The fall arrest system is composed by:

- 1 slider system composed by :
 - 1 slider fall arrester ASCAB3 (EN353-1 and 2). Only this device can be used with the vertical lifeline.
 - 1 anchorage line with extremity AN024/025 (stainless steel cable with Ø8mm)
- 1 anchorage structure by :
 - 1 upper anchorage AN801UNI (EN795:2012/A)
 - 1 lower anchorage AN801UNI + tension system (EN795:2012/A)
 - A system for tensioning AN801TEN the cable (AN024 + AN025).
- 1 set of intermediate holding on structure composed of:
 - 1 intermediate attachment repositionable AN802 (optional). When the length of the lifeline is more than 8m, it's necessary to add an intermediary anchorage AN802.

2/ INSTALLATION DESCRIPTION FOR VERTICAL LIFELINE

MUST READ THE GUIDE ASSEMBLY FOR EACH STEP OF THE INSTALLATION SYSTEM
AN801UNI + AN802 + AN801TEN

Installation requirements :

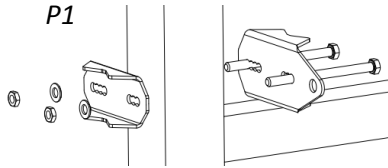
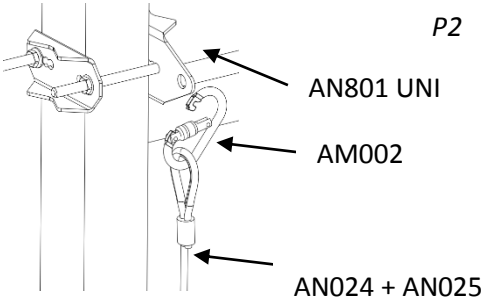
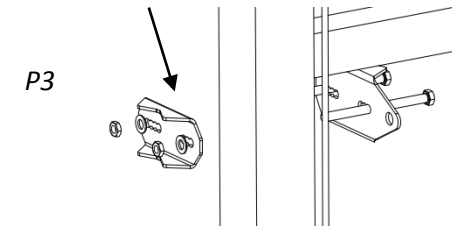
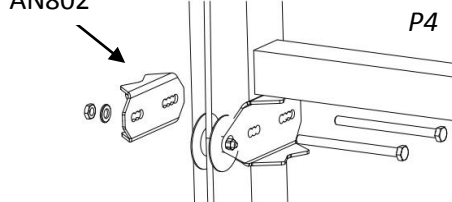
- It's imperative to check the number of intermediate anchors to obtain the guidance of the anchor bracket is done correctly. An intermediate anchoring AN802 should be positioned when the length of the life line is greater than 8 meters. The number of intermediate anchorages are repeated as many times as there are multiples of 8 in the length of the lifeline.
- It's imperative in first time to define the position of anchors and intermediate elements to have a completely vertical support.
- It's imperative to ensure that no element outside the system come fall hinder the installation or use.
- It is imperative to check that the length of the anchor line (cable) is sufficient to reach the upper anchorage to the lower anchorage and thus cover the whole workspace.

Tools necessary for the installation:

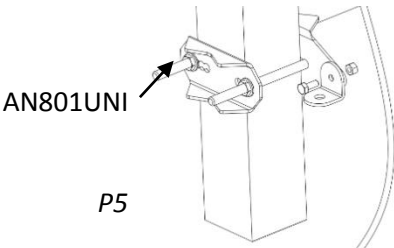
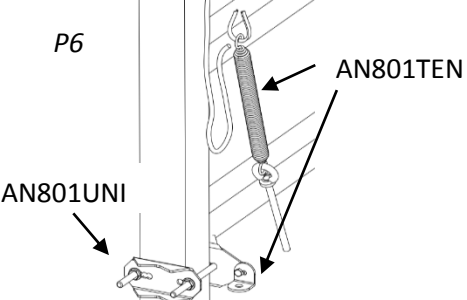
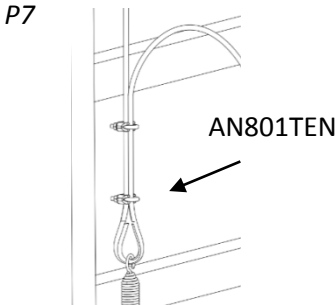
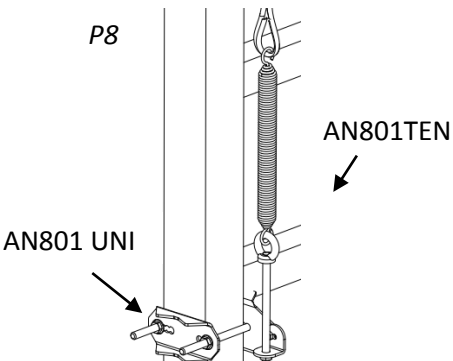
- 2 wrench size 19
- 1 wrench size 17
- 1 wrench size 13
- 1 wrench Allen size 6
- 1 wrench Torque size 19 & 17
- 1 cable nipper
- 1 adhesive tape

IMPORTANT: The following installation procedure must be seen with the installation instructions AN801UNI/AN802 to ensure correct installation of the various anchorages.

Installation of fall arrest system

1	In accordance with the method of installation of the anchor point AN801UNI proceed the installation of the upper anchorage AN801UNI on the highest position of the structure to be protected. <i>P1</i>	 <p>AN801 UNI</p>
2	Hook the upper anchorage AN801UNI with the anchorage line AN024/025 support using the AM002 connector. Secure the connector AM002 with its locking screw. Drop cable (making sure no one is below). <i>P2</i>	 <p>P2</p> <p>AN801 UNI</p> <p>AM002</p> <p>AN024 + AN025</p>
3	In using the cable hanging, installation the anchoring AN801UNI lower on the lowest position of the structure and to secure the most suitable position to obtain an anchor line completely vertical. <i>P3</i>	 <p>AN801UNI</p> <p>P3</p>
4	If it is necessary and with the same method of installation anchors AN801UNI, installing intermediate guides AN802. They must be positioned to get cable sections equidistant spacing of less than 8m. <i>P4</i>	 <p>AN802</p> <p>P4</p>



5	Proceed to the positioning tension system on the lower anchor AN801UNI. The positioning plate screw spring tension should be set at the lower anchor AN801UNI using elements M16 bolt and nut M16. <i>P5</i>	
6	Ensuring that the cable goes through all the pulleys intermediate guides, position the cable with the spring tension using the thimble sleeve loop to prevent damage to the cable. <i>P6</i>	
7	Thanks to cable clamps, fix cable with the tension spring. The cable clamp must be positioned and orient as shown in the draw <i>P7</i> .	
8	Put on tension the anchor line grâce thanks to screw connected with the spring plate. <i>P8</i> Proceed as indicated on the notice AN801UNI/AN802 to get the perfect pre load using the product.	
9	After to have put the tension, the extra length of the cable can be cut. Be careful not to let strand cutting could harm the user (the blade cut can be covered by a piece of tape)	



Checking of the installation before to use the vertical lifeline

BE CARREFUL! Before to use, it is necessary to perform a complete system check to ensure the safe use. To audit the following:

- All components attached to the fixed structure are properly positioned and oriented so as to have an entirely vertical support anchor line.
- The cable is properly attached and secured top and bottom way, and tension is correct.
- All fasteners, such as screws, bolts, nuts are properly tightened. If in doubt, carry checking torque with a torque wrench.

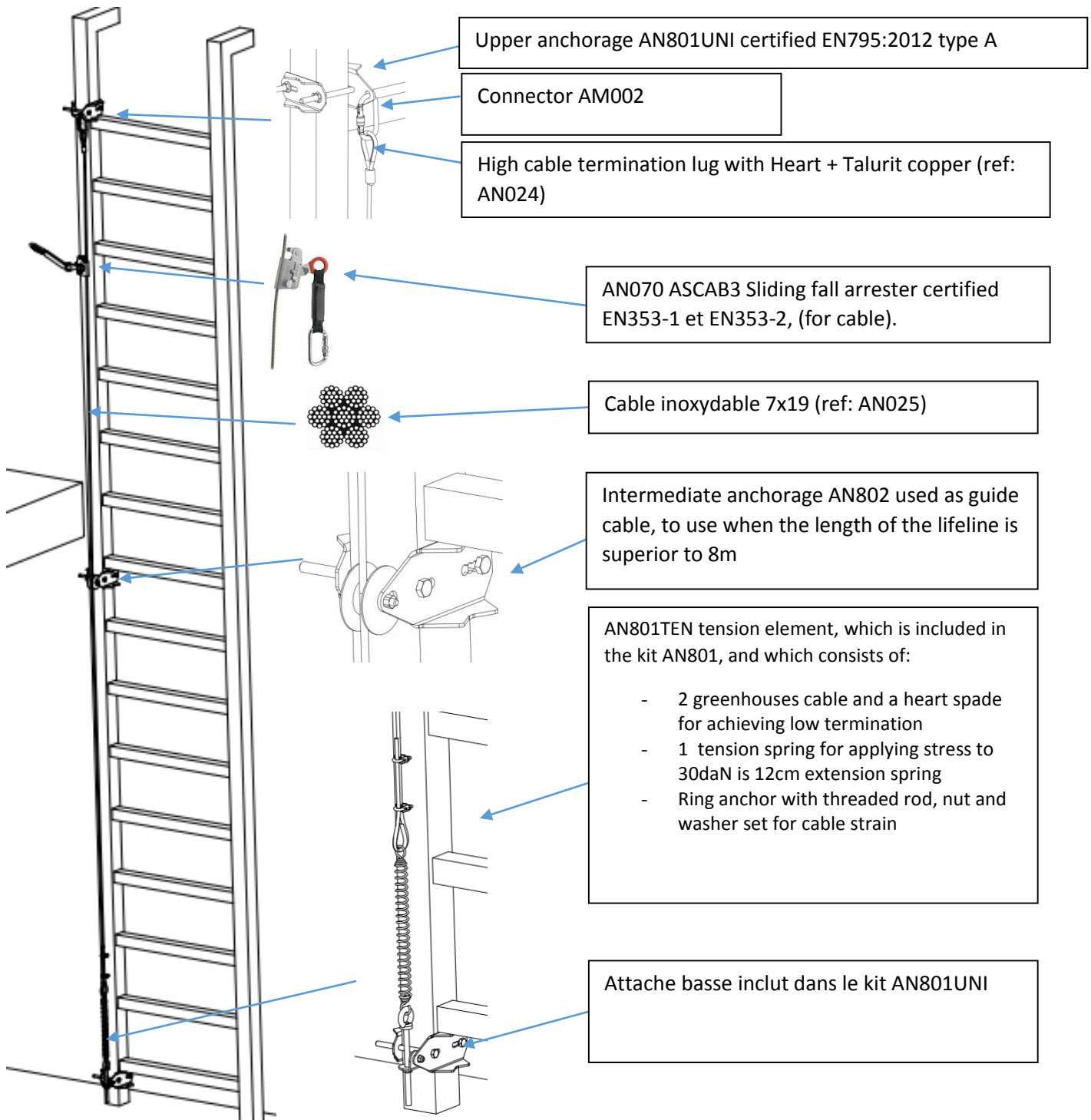
First using of the vertical lifeline

Once the installation is complete and properly verified, place your "fall slide" on the cable in accordance with his instructions and use your vertical lifeline.

EXAMPLE of ASSEMBLING

(for DELTAPLUS products only), is provided with each Permanent anchor device.

Example of diagram: Mounting bracket of Belaying Rigid a ladder to AN070 AN801 ASCAB 3 with kit, AN024/AN025 cable through bracket (optional) AN802 - NB: the host structure must withstand 15kN



Conclusion:

- The kit AN801 is composed by anchorage AN801UNI (upper anchorage) + AN801TEN (tension system) + Lower anchorage AN801UNI (same than the upper anchorage).
- The AN802 is an intermediate attachment with guide pulley. This option is only used for lifeline lengths above 8 m
- The AN024/AN025 set is an Ø8mm stainless steel cable, with its high termination and 1 AM002 connector.
- The AN070-ASCAB3 is a mobile fall arrest sliding on rigid or flexible safety line (or AMSAR AMSAF)