

Installation, use and maintenance booklet

Secure Climbing

Personal protective equipment
against falls from a height
UNI EN 795 CLASS B
CE 0505 MARKING

Maintenance

1/year

Class

B

Certificato UNI EN 795

EUROPEAN
CERTIFICATION BODY



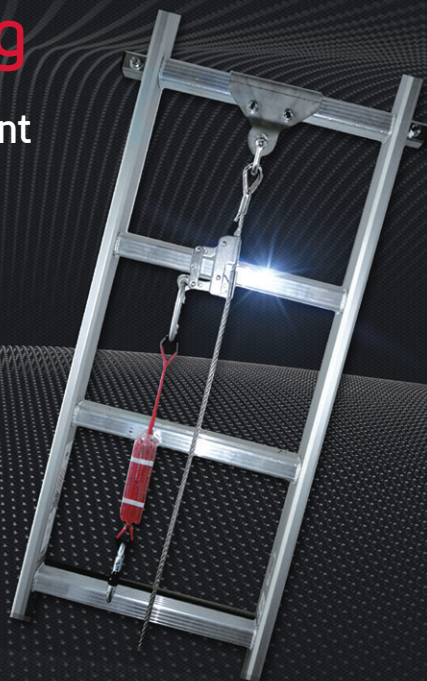
**VENETA
ENGINEERING**

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0505

Operators

1



10 year warranty

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0200

CE 0505

Contents

| | |
|---|----|
| 1. General information | 3 |
| 2. Use | 3 |
| 2.1 Fall clearance calculation and PPE length | 4 |
| 2.2 Device installation | 5 |
| 2.3 Device drawing | 6 |
| 2.4 Compatibility with other PPES | 7 |
| 3. Final check | 7 |
| 4. Removal of device at end of work | 7 |
| 5. Identification | 7 |
| 6. Ordinary inspections | 7 |
| 7. Useful life of the device | 8 |
| 8. Transportation | 8 |
| 9. Storage | 8 |
| 10. Warranty and warranty limitations | 8 |
| 11. Liability | 9 |
| 12. EC certificate of conformity | 10 |
| 13. Periodical inspections register | 11 |

1. General information

HBSecurity produces anchoring devices against falls used to protect all workplaces at a height, according to Lgs.Decree 81/2008 as amended and to a certified control system.

The product test certificates and these instructions can be downloaded from the website www.hbsecurity.it.

HBSecurity **Secure Climbing** is a transportable temporary fall-prevention system specifically designed to ensure safety of access to at height workplaces by means of a portable ladder.

HBSecurity **Secure Climbing** can be used on rung ladders with a minimum square section of 35x35mm. The rungs must be open on the sides to allow the insertion of the reinforcement pipe.

2. Use

Access to workplaces at a height must be allowed, and the installation and use of any fall arrest anchoring devices must be carried out, only to/by specifically trained personnel.

WARNING: the following instructions are not designed for teaching at-height work techniques.

In order to install the devices correctly, it is recommended that the operator(s) have attended installation courses held by the manufacturer. In particular, for correct use of the fall arrest devices the operators should have attended a PPE Category 3 and at-height-work course.

HBSecurity **Secure Climbing can be used by only 1 operator.**

The HBSecurity **Secure Climbing** device may be used exclusively with the:

- HBSecurity **Ladder hook**
- self-locking travelling device

The HBSecurity **Secure Climbing** device **MUST** be used in combination with PPEs equipped with energy absorbers compliant with EN 355.

In the event of a fall, the operator remains suspended above ground. To avoid the onset of symptoms linked to suspension, that may sometimes have irreversible and mortal consequences, a team of at least two operators

capable of handling the emergency situation is recommended.

After a fall, the device must be inspected by a qualified technician who will then issue a formal approval for use. Until then, the device must be taken out of service.

Should any components of the device or of the fastening be damaged, the technician shall order its replacement. The use of original elements is highly recommended.

2.1 Fall clearance calculation and PPE length

The fall clearance is the distance covered by the operator in a fall.

Fall distance must be less than the clearance to impact, i.e. with respect to the distance between the operator and any obstructions.

The length of the PPE consists in the length of the element connecting the operator's harness to the anchorage point (lanyard).

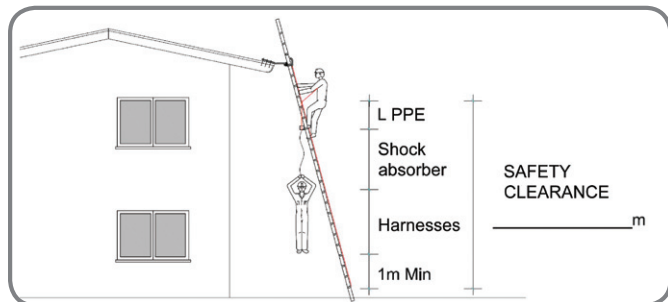
When using the **HBSecurity Secure Climbing** device, two critical situations must be considered:

- Operator very close to the ground.
- Roof landing operations.

In order to limit to the utmost the operator's risk of impact when he/she works close to the (lower) level of impact, a very short PPE is necessary, with max L PPE = 50 cm. During ascent/descent, the operator must keep the self-locking travelling device as per EN 353-2 above his/her head.

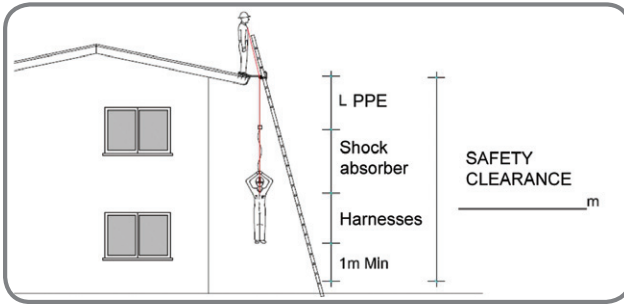
In order to allow for roof landing/evacuation operations, a PPE 150 cm long is required. This PPE allows the operator to anchor himself to an anchoring point pre-installed on the roof for the safety of landing/evacuation operations.

Calculation of MINIMUM HEIGHT on the ladder:



$$\begin{aligned}
 \text{FALL CLEARANCE} &= \\
 &\text{L PPE } 50 \text{ cm} + \\
 &\text{ENERGY ABSORBER EXTENSION } 1.75 \text{ m Min} + \\
 &\text{HARNESSES HEIGHT } 1.75 \text{ m} + \\
 &\text{RESIDUAL FALL CLEARANCE } 1 \text{ m Min} = \\
 &= 5.00 \text{ m}
 \end{aligned}$$

Calculation of MINIMUM HEIGHT landing/evacuation



FALL CLEARANCE =
 L PPE 1.50 m +
 ENERGY ABSORBER EXTENSION 1.75m Min +
 HARNESS HEIGHT 1.75m +
 RESIDUAL FALL CLEARANCE 1 m Min =
 = 6.00 m

2.2 Device installation

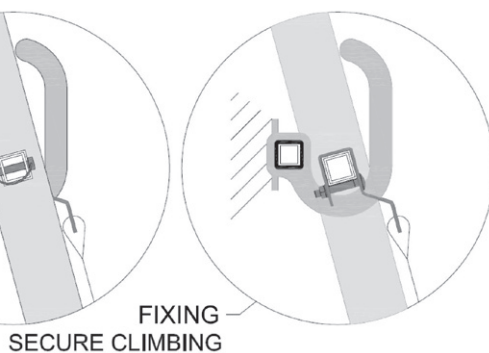
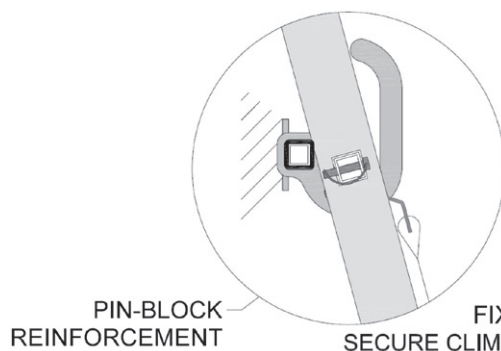
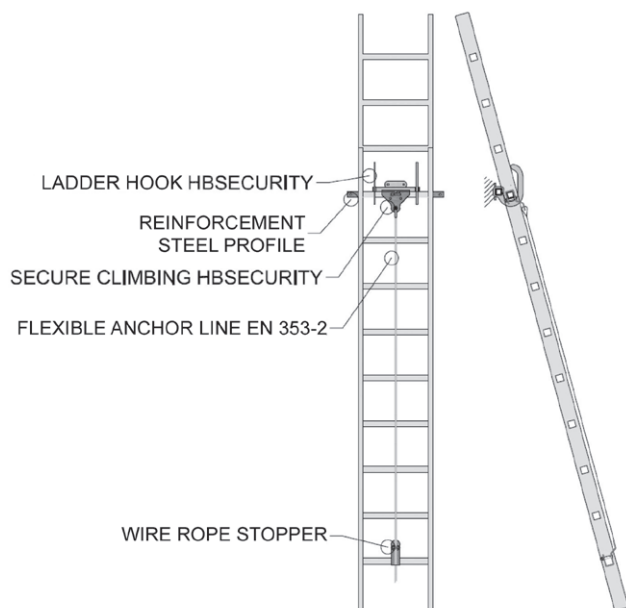
- Place the device on the rung that will be anchored to the HBSecurity Ladder Hook. Fasten the device using the two M10 bolts;

WARNING: during access using a portable ladder, the ladder must protrude above the landing level by at least 1 metre.

- Insert the reinforcement pipe inside the rung and fasten it in place by inserting, from the side of the ladder, the locking pins inside the reinforcement pipe;
- Place the guide stop on the last rung at the bottom end of the ladder;
- Attach the vertical guide compliant with EN 353-2 (steel or textile rope) to the HBSecurity Secure Climbing device and tense the guide by fastening it in the lower guide stop;
- Place the self-locking travelling device EN 353-2 on the rope, making sure it is installed in the right direction. Please remember that if mounted in the contrary direction the device will fail to prevent operator fall;
- It is recommended that the ladder base be tied down (see ladder hook instructions).

WARNING: in the event of temporary long-term accesses, use a metal rope, preferably 316 stainless steel.

2.3 Device drawing



2.4 Compatibility with other PPEs

The correct use of the HBSecurity Secure Climbing device foresees the contemporary use of the following PPEs, not included with the product:

- Lanyard with EN 355 absorber
- Fastener EN 362
- Guided fall arrest device EN 353-2

3. Final check

Once installed, check the ladder's stability and the guide rope's solidity. Check that the device is integral and complete with all of its parts.

WARNING: Before fastening the harness to the self-locking travelling device EN 353-2, check

that it operates correctly and that it is mounted in the right direction. Should the self-locking travelling device EN 353-2 be mounted in the wrong direction, the operator's fall would not be arrested.

4. Removal of device at end of work

At the end of the utilisation period, remove the device by following the installation steps in reverse order.

Once the device has been disassembled, be careful not to disperse its components.

5. Identification

Each HBSecurity Secure Climbing device is identifiable via the data engraved on the device itself:

Using the Batch Number, the HBSecurity internal tracing system can trace back to the supply batches of all of the components of the HBSecurity Secure Climbing.

HB Security CE0505
UNI EN 795 class B
Batch no. xxxx/year

6. Ordinary inspections

The **annual inspection** of the safety devices by qualified personnel is **mandatory**. The personnel shall log the inspection into this booklet and on the identification tag posted next to the access point.

The inspections shall be the ones indicated in the list given further below. After the inspection, the technician shall log the inspection on the identification tag and shall issue the periodical inspection report.

Inspections:

- Inspection of the **device**: corrosion level, absence of deformation, abrasions, wear and tear, breaks, etc.

- Inspection of the **metal cable**: degree of corrosion, absence of incisions, reduction in diameter, breaking of metal wires, abrasions, wear and tear, breaks, etc... Inspection of crimpings and cable-clamp kit;
- Inspection of **textile cables**: degree of wear and tear, absence of abrasions, reduction or increase in diameter, dryness/elasticity, etc... Replace if exposed for a long time to the sun or weather;

7. Useful life of the device

All metal parts of the device have unlimited life in absence of causes that require its placing out of service, subject to periodical checks being carried out at least once every 12 months starting from the date of installation.

The expiry date of textile materials is as indicated by their manufacturers.

The factors that can shorten the useful life of the device and require its placing out of service are the following:

- very frequent use;
- damage to device components;
- aggressive environment;
- abrasion, shock, crushing;
- operator's fall;
- on-site device testing;
- as regards textiles, exposure to the sun and to weather.

8. Transportation

Protect the product from the risk of damage. Manual handling of the packaging must be performed taking into account the limitations

set under Legislative Decree No. 81/2008 as amended. The light weight of the device allows it to be handled by only one operator.

9. Storage

Store the unpackaged product in a dry place, away from aggressive environments or from any other source of damage or deterioration.

10. Warranty and warranty limitations

The HBSecurity **Secure Climbing** device is guaranteed for 2 years from the date of purchase, subject to the following conditions:

The components of the HBSecurity **Secure**

Climbing device are guaranteed against all manufacturing defects. The warranty extends to the replacement of any defective parts.

Warranty conditions:

- 1) Any manufacturing defects of the **HBSecurity Secure Climbing** device that should be observed in time are subject to notification by the client and verification by the manufacturer, and shall be eliminated as soon as possible, compatibly with the intervention timing, including by replacement of the defective component.
- 2) Intervention costs shall be charged to the manufacturer subject to the defect being notified within two years following product purchase.
- 3) The warranty shall be null and void if the product or one of its parts is tampered with.
- 4) The environmental conditions of reference are those indicated in ISO 9223 and in UNI EN ISO 14713.

Warranty does **not** apply to:

- Pieces deteriorated following on-site testing, inappropriate use of the device, lack of periodical inspections, faulty installation;
- Use of the product with unsuitable accessories.
- Device intervention following operator's fall.
- Installation in aggressive environments.
- Components prone to wear and tear or to deterioration (textiles).

11. Liability

HBSecurity or the dealer shall be held harmless with regard to damage, injury or death caused by inappropriate use, tampering, use of non-original products, inappropriate installation, failure of the fastenings or of the installation structure.

It is the user's responsibility to understand and follow the instructions for the correct installation and use of the device, to use the device only for the activities it has been designed for and to apply

all possible safety precautions and procedures.

Before using the device, the user must put in place an effective procedure for the handling of any emergencies.

The user shall be held personally responsible for the correct use of the device. Should the user not be in the position to accept this responsibility, **THE DEVICE SHOULD NOT BE USED.**

12. EC certificate of conformity



The Manufacturer HBSecurity

**Hereby declares
that the fall-arresting device**

**HBSecurity
Secure Climbing**

- conforms to and has been manufactured in accordance with directive 89/686/EEC and with the national harmonized standards Legislative Decree 475/1992, Legislative Decree 10/1997 and any amendments thereto, under the supervision of the Notified Body Veneta Engineering No. 0505;
- is identical to the PPE subject of the CE certification statement: 0505-DPI-1057 **HBSecurity Secure Climbing** issued by Veneta Engineering Srl, the Notified European Certification Body No. 0505 for Directive 89/686/EEC;
- has passed the resistance and performance tests envisaged in UNI EN 795 **Class B**, confirming the declared class. The tests have been carried out in the Veneta Engineering laboratory, ref. Via Lovanio, 8-10, Verona.

Cortaccia (BZ), 28-12-2012
The Legal Representative

Harobau Srl

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13. Periodical inspections register

| Date | Inspector's signature | Inspection result | Notes |
|------|-----------------------|-------------------|-------|
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High technology, maximum reliability

HBSecurity's mission is to meet the safety needs of work at height. Focusing on people by supplying consulting and training services for operators, HBSecurity is a dynamic company engaged in an ongoing search for the most effective and efficient solutions for the safety and peace of mind of rooftop workers.

The logo for HBSecurity, featuring the company name in a bold, white, sans-serif font. A small icon of a safety helmet is positioned above the letter 'y'.

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