



# fImbISAVER / fImbICLIMB

Herstellerinformation und Gebrauchsanleitung/  
Manufacturer's information and instructions for use

Nach:  
EN 795B:2012, AS/NZS5532:2013  
ANSI Z133-2012 für Baumpflegearbeiten

Acc. to:  
EN 795B:2012, AS/NZS5532:2013  
ANSI Z133-2012 for arboricultural operations

# CONTENTS

## EN

1.	Explanation of the marking	4
2.	Use	4
3.	Limitations of use	6
4.	Security	7
5.	Warning	7
6.	Transport, storage and cleaning	7
7.	Regular checks	8
8.	Maintenance	9
9.	Service life	9

## DE

1.	Erklärung zur Kennzeichnung	11
2.	Gebrauch	11
3.	Gebrauchseinschränkungen	13
4.	Sicherheitshinweise	14
5.	Warnung	14
6.	Transport, Lagerung und Reinigung	14
7.	Regelmäßige Überprüfung	15
8.	Instandhaltung	17
9.	Lebensdauer	17

## FR

1.	Explication du marquage	18
2.	Utilisation	18
3.	Restrictions d'utilisation	19
4.	Sécurité	20
5.	Avertissement	21
6.	Transport, stockage & nettoyage	21
7.	Contrôle régulier	21
8.	Entretien	23
9.	Durée de vie	23

## NL

1.	Verklaring van de aanduidingen	25
2.	Gebruik	25
3.	Gebruiksbeperking	26
4.	Veiligheidsaanwijzing	27
5.	Waarschuwing	28
6.	Transport, opslag en reiniging	28
7.	Regelmatige controle	28
8.	Onderhoud	30
9.	Levensduur	30

## IT

1.	Illustrazione etichettatura	32
2.	Utilizzo	32
3.	Limiti dell'utilizzo	33
4.	Sicurezza	34
5.	Avvertenza	35
6.	Transporto, immagazzinamento e pulizia	35
7.	Controlli periodici	35
8.	Manutenzione	37
9.	Durata di vita	37

## SE

1.	Förklaring till märkningen	39
2.	Användning	39
3.	Användningsbegränsning	40
4.	Säkerhetsanvisningar	41
5.	Varning	41
6.	Transport, förvaring och rengöring	41
7.	Regelbunden kontroll	42
8.	Underhåll	44
9.	Livslängd	44

## ES

1.	Explicación del marcado	45
2.	Uso	45
3.	Restricción de uso	46
4.	Seguridad	47
5.	Advertencia	48
6.	Transporte, almacenamiento y limpieza	48
7.	Verificación regular	48
8.	Mantenimiento	50
9.	Durabilidad	50

## DK

1.	Forklaring af mærkningen	52
2.	Brug	52
3.	Indskrænkninger i anvendelsen	53
4.	Sikkerhedsanvisninger	54
5.	Advarsel	54
6.	Transport, opbevaring & rengøring	54
7.	Regelmæssig kontrol	55
8.	Istandsættelse	57
9.	Levetid	57

# CONTENTS

## FI

1.	Merkintöjen selitykset	58
2.	Käyttö	58
3.	Käytön rajoitukset	59
4.	Turvallisuusohjeet	60
5.	Varoitus	60
6.	Kuljetus, varastointi ja puhdistus	60
7.	Säännöllinen tarkastus	61
8.	Kunnossapito	63
9.	Käyttöikä	63

## NO

1.	Erklæring om merking	64
2.	Bruk	64
3.	Sikkerhetsinstrukser	65
4.	Før bruk	66
5.	Advarsel	66
6.	Transport, oppbevaring og rengjøring	66
7.	Regelmessig kontroll	67
8.	Levetid	68
9.	Vedlikehold	68

## CZ

1.	Vysvětlivky značení	70
2.	Použití	70
3.	Omezení při použití	71
4.	Bezpečnostní informace	72
5.	Výstraha	72
6.	Přeprava, skladování a čištění	72
7.	Pravidelné revize	73
8.	Údržba	75
9.	Životnost	75

## PL

1.	Objaśnienie oznaczenia	76
2.	Stosowanie	76
3.	Ograniczenia w stosowaniu	77
4.	Zasady bezpieczeŃstwa	78
5.	Ostrzeżenia	78
6.	Transport, składowanie i czyszczenie	79
7.	Regularne przeglądy	79
8.	Konserwacja	81
9.	Trwałość	81

## SK

1.	Vysvetlenia k značkám	82
2.	Použitie	82
3.	Obmedzené použitie	83
4.	Bezpečnostné pokyny	84
5.	Výstraha	84
6.	Transport, skladovanie & čistota	84
7.	Pravidelné kontroly	85
8.	Údržba	87
9.	Životnosť	87

We appreciate that you have chosen a TEUFELBERGER product. Please read these instructions for use carefully.

### WARNING

**This product may be utilized only by persons trained in its safe use** and having the relevant knowledge and skills, or under the direct supervision of such persons. Whenever possible, the equipment should be provided personally to the user. It may be used only within the specified limited scope of use and for the defined purpose.

**Prior to using this product**, read this document thoroughly, make sure you understand the Instructions for use, and keep them with the product, together with the Inspection Sheet! Keep instructions for future reference. In addition, check national safety regulations regarding personal protective equipment (PPE) for arborists' use for local requirements.

The product accompanied by this set of instructions is type-examinde, CE-marked to state conformity with the European directive 89/686/EEC on Personal Protective Equipment (PPE) and meets the European standard(s) given on the product label. The product does however not comply with any other standards unless explicitly stated.

If the system is sold or passed on to another user the Instructions for use must accompany the equipment. If the system is transferred to another country, it is the responsibility of the seller/previous user to ensure that the Instructions for use are in the correct language for that country.

TEUFELBERGER is not responsible for any direct, indirect, or incidental consequences/damage occurring during or after the use of the product and resulting from any improper use, especially caused by incorrect assembly of the equipment.

Edition 01/2017, art. no.: 6800200

### WARNING

The use of our products can be dangerous. Our products may only be used for their intended purpose. They must particularly not be used for lifting as specified in EU directive 2006/42/EC. The customer is responsible that the user has been trained in the safe use of the product and in accompanying safety precautions. Be aware of the fact that the product can cause damage if wrongly used, stored, cleaned or overloaded. Check national safety regulations, industry recommendations and standards for local requirements. TEUFELBERGER® and 拖飞宝® are internationally registered trademarks of the TEUFELBERGER Group.

## 1. EXPLANATION OF THE MARKING

Product name

EN 795B: Standard for transportable, temporarily mounted anchor device, protection against falls from a height

ANSI Z 133-2012: US-american standard for arboricultural operations

AS/NZS5532:2013: rating: single person / limited free-fall ... Australian/New Zealand standard for anchor devices, class: single person / work positioning / restraint system

L: Length in [m]

Ser. Nr.: Year/month of manufacture - serial number

CE 0408 The CE mark certifies compliance with the fundamental requirements of 89/686/EEC (Personal Protection Equipment). The number identifies the testing institute (e.g., 0408 for TÜV Austria Services GmbH, Deutschstraße 10, A-1230 Vienna, Austria).



Manufacturer

Indication informing the user that it is necessary to read the User Instructions.

„single user only“ indication informing the user that the anchor device must only be used by a single user.

“personnel attachment only”: only for personal fall protection purposes

SMK 40474: license number - identifies certification to AS/NZS

The European standard symbols for washing of textiles and their care are used.

## 2. USE

- This anchor device was tested to EN 795, Class B, for use by a single person using personal protective equipment.
- Pursuant to EN 795, this anchor device (anchor point) for personal protection equipment must be capable of withstanding a force of 18 kN in every described mode of use when new.
- This assembly is intended for use in a work positioning system. It shall not be used for fall arrest applications. Under no circumstances shall the potential fall distance exceed 500mm.

- Whenever possible, the anchor point should be vertically above the user. The potential for, and consequences of pendulum swings shall be managed at all times.
- Check the structure to which you fasten the anchor device as to whether or not it is of suitable and sufficient strength for the purposes of supporting any foreseeable loading including that in an emergency contingency. Prior to using it have the anchor device checked by a competent person. The product can be used as a belay for the rescuer after a single fall – this must only be done if a suitable structural anchor (tree / branch) is chosen. (After all, in the type examination, dynamic loading was tested twice without making any readjustments of or other corrections to the anchor device.) The structural anchor (tree / branch) must withstand more than 12 kN.
- Always attune the length of the anchor device to the object it is looped around. The used length of the rope shall be at least three times the length of the circumference of the object to be enlooped so that the rope will be positioned in the direction of pull. The used length can be adjusted with the friction hitch. Always check whether the hitch is properly dressed and whether it grips reliably. Only use the two thimbles for attachment and never use the end marked red as it is only designed as a stopper for the friction hitch.
- A work positioning system must always be maintained as taut as possible from the anchor point to the belayed person (avoid rope slack).

## WARNING

When working with fall arrest note that

- an energy absorber according to EN 355 is needed that reduces dynamic forces to max. 6 kN.
- the lanyard including fall arrest systems and connection elements must not exceed 2 m.
- a clearance of 7m underneath the user is needed to avoid ground impact.

## MODES OF USE



fig. 1

Later retrieval of the system must be taken into consideration upon installation! During installation, keep in mind that the shape and size of the throw bag and its attachments (e.g. rings) prevent it from being pulled into the thimble and getting stuck in it.



fig. 2



fig. 3

The thimble mounted in the OP Loop 8mm Tn (flmbISAVER - fig. 4) and in the OD Loop 7mm T (flmbICLIMB - fig 5.) serves as a retrieval aid. Because of the difference in design as compared to the terminal thimble, the cone will get caught in this thimble when the climbing rope is pulled out. Before that, the cone can be pulled through the thimble at the end.

**NOTE:** Use the yellow Cone-S for flmbICLIMB and the red Cone-L for flmbISAVER.

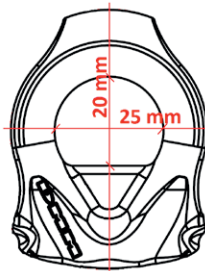


fig. 4: flmbISAVER

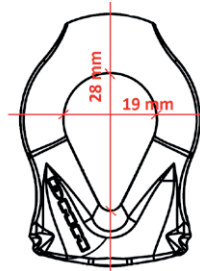


fig. 5: flmbICLIMB

### ASSEMBLY OF OP LOOP 8MM TN (fImbISAVER)

### ASSEMBLY OF OD LOOP 7MM T (fImbICLIMB)



fig. 6

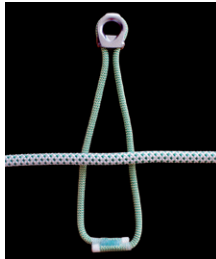


fig. 7



fig. 8



fig. 9

When conducting the crossover please take care that the ropes are not crossed. They must be parallel.

## 3. LIMITATIONS OF USE

Never carry out work with this product if, as a result of your physical and mental condition, your safety might be compromised in scenarios of normal use or in emergencies!

### Do not place this product near sharp edges!

Care should be taken to ensure that the rope (or any other part of the system) is routed away from surfaces that may damage the rope (or any other component), or that suitable and sufficient protection is appropriately placed to ensure the rope and other components are protected.

Keep away from surfaces which may cause damage to the work equipment e.g. sharp or abrasive surfaces or edges. The anchor device shall be used for personal protective equipment and not for lifting devices - as in rigging operations!

**NOTE fImbICLIMB:** The Prusik Loop with thimble contains a core of Dyneema® fibers that are not heat resistant. When installed correctly, the friction hitch is positioned where needed and remains in that position. Movement of a loaded friction can lead to heat build up through friction/abrasion. Heat build-up (>60°C) must be avoided.

### Use according to ANSI Z133-2012:

ANSI Z133-2012 requires arborist climbing lines (i.e. lines designated to support the climber while aloft in a tree or attached to a crane) to have a minimum diameter of 1/2 inch (12.7mm) with the following exception: In arboricultural operations not subject to regulations that supersede Z133.1, a line of not less than 7/16 inch (11 mm) diameter - like the line present in this product - may be used, provided the employer can demonstrate it does not create a safety hazard for the arborist and the arborist has been instructed in its use.

### GRAB FUNCTION OF THE FRICTION HITCH

The friction hitch is a means of adjusting the length of the anchor device. In adverse conditions or environments, the function the product may be affected. For example, greater care may be needed to ensure that the friction hitch grabs reliably. Ice, mud, rain, cold, snow and tree exudates are examples of localised or climatic conditions that may demand greater attention from the user.

Beware, tree exudates may create conditions similar to those made by lubricants or adhesives. Contamination of ropes with tree exudates may lead to rope hardening and reduce friction hitch grab reliability. Maintain ropes so that their function is reliable. Ideally, ropes should always be dry, clean and perform equally along their entire length.

Great care shall be taken to ensure that objects (such as leaves or twigs) are not trapped by the friction hitch. Friction levels may be lowered, the grab function may fail, resulting in a descent until the friction hitch meets the stopper. To minimise this risk, users shall select the site of installation in the tree (and other structures where debris may be encountered) to avoid this situation.

Check also at all times that objects (including karabiners, rope crossings, twigs etc.) do not contact the

top of the friction hitch and affect or eliminate the reliable grab function. Modifications or additions to this product, apart from replacement of the spare parts as described above, are unacceptable, unless done by the manufacturer.

## 4. TO BE OBSERVED PRIOR TO USE

Prior to every use, this product must be subject to a visual inspection in order to verify its integrity, readiness for use and proper functioning. Once the product has been subject to a fall, its use must be discontinued immediately. If the slightest doubt remains, the product must be retired or may not be used again until a duly competent person, having subjected such product to the required testing and inspections, has approved its further use in writing.

It must be ensured that the recommendations for use with other components be complied with: ropes need to meet EN 1891, while carabiners need to meet EN 362 and any further PPE must meet the harmonized standards under the regime of EU guideline 89/686/EEC. Be sure to observe the recommendations provided in this instructions for use document and the specifications contained in the "Documentation of Equipment".

The compatibility of all components in the load chain is of critical importance.

Ensure all neighbouring components are compatible. Ensure all components are correctly configured. Failure to do so increases risk of serious injury or fatality.

It is the responsibility of the user that a relevant and 'live' Risk Assessment is in place for the work to be carried out which includes emergency contingencies. A plan of rescue measures that covers all foreseeable emergencies needs to be in place before this product can be used. Prior to and during use, rescue measures that can be executed safely and effectively must be considered at all times.

## 5. WARNING

- If there exists only the slightest doubt about the safe condition of the product, be sure to replace such product immediately.

- A system that has been exposed to a fall shall be retired, or be returned to the manufacturer or a duly qualified repair shop for maintenance and testing.
- Snow, ice, and moisture may affect the product's handling and strength.
- Be sure to avoid high temperatures, sharp edges, and exposure to chemicals (e.g., acids). Rappel slowly to prevent the generation of great heat. UV radiation and abrasion have an adverse impact on the rope and its strength.
- Knots in the rope may cause a significant reduction of its breaking load.

## 6. TRANSPORT, STORAGE AND CLEANING

This product consists of different textile materials: Two parallel polyester ropes extend inside the polyester cover. In the case of the flmbISAVER, the interior of the rope forming the friction hitch also consists of polyester, while on the flmbICLIMB it is made of Dyneema®. In both cases, the cover consists of polyester and aramid fibers.

Aramids and Dyneema® are not UV-stable. Sunlight and chemicals attack the material and cause it to lose in strength. Because of the polyester content the product must never be subject to temperatures of more than 100 °C. Furthermore, Dyneema® must never be exposed to temperatures above 60 °C.

Reactions like discolouration, hardening are clear evidence that the product must be removed from service.

The thimbles are made of stainless steel. Do not use this product in corrosive conditions.

When **transporting** the product, it must always be protected from light and dirt and provided with suitable packaging (moisture-repellent material that is impervious to light).

### Conditions of storage:

- Protected from light (UV radiation, welding machines...)
- Dry and clean
- At room temperature (15 - 25 °C)
- Not in the proximity of chemicals (acids, lyes, liquids, vapours, gases, ...) and other aggressive environments
- Protected against sharp-edged objects

Therefore, store the product dry and ventilated in a moisture-repellent bag that is impervious to light.

For **cleaning**, use lukewarm water and – if available – a rope detergent in accordance with the cleaning instructions provided thereon. Do not use a textile detergent. Following cleaning, rinse the product with plenty of clear water. In any event, prior to storage or use, allow the product to dry completely in a natural way and not in direct sunlight, or near fires or other heat sources.

For **disinfection**, use only such substances that do not have an impact on the synthetic materials used. Do not disinfect the product more often than is absolutely necessary! We recommend the use of isopropyl alcohol 70%. Apply the disinfectant to the surface for about 3 minutes and allow the product to dry naturally. Be sure to observe the safety instructions for the use of the disinfectant.

If you fail to observe these provisions, you will be putting yourself into danger!

## 7. REGULAR CHECKS

Checking the equipment at regular intervals is absolutely necessary: your safety depends on the effectiveness and durability of the equipment!

Following each use, the product should be checked for abrasion and cuts. Also check it for the legibility of the product labelling! The use of damaged components or components subjected to a fall must be discontinued at once. If there is only the slightest doubt, the product needs to be retired or subjected to testing and by a competent person.

When using the equipment in occupational health and safety to EN 365, it must be checked at least every 12 months by a duly qualified person strictly observing the instructions, or else by the manufacturer, and it must, whenever necessary, be replaced. These inspections must be documented (documentation of equipment; cf. the following table). It is advisable to mark the anchor device with either the next or the latest date of inspection. Refer to national regulations for inspection intervals.

### Product inspection record sheet:

Manufacturer: TEUFELBERGER Fiber Rope GmbH, Vogelweiderstraße 50, A-4600 Wels	Model:	Retailer:	
Batch No.:	Serial No.:	Name of User:	
Date of Production:	Purchase Date:	Date of First Use:	Date of Retirement:
Compatible components within harness based work at height systems:			
Comments:			



## Written Inspection Record Sheet

Date	Inspection type *(p, w, t, e)	Findings and actions (Defects, repairs, etc.)	Accept, Reject or Correct?	Next inspection date	Name and Signature of competent person

\*Inspection types: p = pre-use check, w = weekly inspection, t = thorough inspection, e = exceptional circumstances

### Such inspections must at least comprise the following:

- Check of general state: age, completeness, soiling, correct assembly
- Check of label: Does it exist? Is it legible? Is there a CE marking? Does it specify the year of manufacture?
- Check of all individual parts for mechanical damage such as: cuts, cracks, indentations, abrasion, formation of ribs, kinks, crushing.
- Check of all individual parts for thermal or chemical damage such as: fusing, hardening.
- Check of metal components for corrosion and deformations.
- Check of condition and completeness of end connections, stitching (e.g. no abrasion of sewing thread), splices (e.g. no slippage), knots.

**Again, the following rule applies:** If there is only the slightest doubt, the product needs to be retired or subjected to testing by a competent person.

## 8. MAINTENANCE

Repairs may be carried out only by the manufacturer

## 9. SERVICE LIFE

Friction Hitch cord (Ocean Polyester or Ocean Dyneema®) is a consumable wear part. Expect to see signs of wear. Expect to replace friction hitch cord regularly. Regular monitoring is essential e.g. pre-use checks, weekly inspections, thorough examinations (consult national legislation for interval) and after exceptional circumstances. The service life of the friction hitch cord is up to 3 years for the OP Loop 8mm (flmbISAVER) and up to 2 years for the OD Loop 7mm (flmbICLIMB), both from the day the product was first taken out of its undamaged light-protected package, and the product must be retired no later than after 3 years of use (OP Loop/flmbISAVER), or 2 years of use (OD Loop/flmbICLIMB). We recommend that you keep the original sales receipt which is the proof of purchase.

The theoretically possible total product life (correct storage prior to first removal + period of use) is limited to 5 years from the date of manufacture.

Aramids are not UV resistant (incl. sunlight). Therefore, keep the rope protected against UV and replace it immediately if discoloration, hardening, or

yarn damage (abrasion of fiber parts, fibrillation, bleaching, mechanical wear, etc.) occur.

The friction hitch cord is available as a spare part from TEUFELBERGER ([www.teufelberger.com](http://www.teufelberger.com)): OP Loop 8 mm Tn, item no. 7350841 for flmbISAVER, OD Loop 7mm T, item no. 7350606 for flmbICLIMB. For the rope to which the Prusik knot is fastened the service life may extend to up to 5 years from the date of manufacture on condition that the product is used infrequently (1 week per year) and stored properly (see section "Transport, storage and cleaning").

The actual useful life depends solely on the condition of the product, which in turn is influenced by various factors (see below). Extreme influences may shorten service life to a single use only or to even less if the equipment is damaged prior to its first use (e.g. in transport).

Mechanical wear and other influences such as the impact of sunlight will decrease the life span considerably. Bleached or abraded fibres, discoloration, and hardened spots are certain indicators that the product needs to be retired.

It is clearly not possible to offer a general statement about the product's service life, as such life span depends on various factors, e.g. UV light, type and frequency of use, handling, climatic influences such as ice or snow, environments such as salt, sand, battery acid etc., heat contamination (above normal climatic conditions), mechanical deformation and/or distortion,... (incomplete list!),

After use, the flmbICLIMB / flmbISAVER must be removed from the tree. flmbICLIMB / flmbISAVER is not designed for permanent mounting on a tree. The lifetime of an installed anchor depends not only on the material of the sling but also on the condition of the tree and on how the sling is attached.

**In general, the following rule applies:** If the user, for whatever reason – however insignificant it may seem – is uncertain whether or not the product meets all the necessary criteria, either reject it from service and render unusable, or place in quarantine and label in an obvious manner so that it cannot be used by mistake. Only return to service following the written authorisation of a competent person.

**Withdraw equipment from service if it has been used to arrest a fall.**



**Download**  
Treecare Catalogue



**TEUFELBERGER Fiber Rope GmbH**

Vogelweiderstraße 50

4600 Wels, Austria

Telephone: +43 (0) 7242 413-0

Fax: +43 (0) 7242 413-169

fiberrope@teufelberger.com

[www.teufelberger.com](http://www.teufelberger.com)