



FS DELTA

User Manual

FS DELTA

Holding harness and rescue harness/loop

Subject to technical changes

BRIEF DESCRIPTION

INTENDED USE

The FS DELTA holding and rescue harness is part of personal protective equipment (PPE) of category III to prevent falls from heights. The holding and rescue harness FS Delta serves to rescue a person from heights or depths using rope equipment. The holding and rescue harness can be used universally for adults and children. The harness can also be used as an auxiliary harness/holding harness for helicopter winch operations.

This equipment may only be used by persons familiar with personal preventive equipment and the risks associated with working in areas where there is a risk of falling.

All other uses are deemed improper. The company BORNACK will not be liable for any ensuing damages. The user bears the sole risk.

Maximum number of persons: 1 person

FUNCTION

- Universal, fast and safe harness system for rescuing one person
- The high anchor point prevents the upper body tilting backwards

EQUIPMENT

- Rescue harness acc. to 1498-B:2007 and holding harness acc. to EN 358:2000
- Sturdy sitting cloth
- Padded chest strap with three colour-coded anchor loops
- Settable shoulder straps with braces function
- Material: Polyamide
- Universal size XS - XL

ACCESSORIES

- Karabiner with TWISTLOCK PLUS fastener
- When used as a holding harness in a helicopter winch: steel karabiner with triple fastener lock

USE

- Rescue and evacuation of one person
- When used as a holding harness in a helicopter winch: lowering and lifting of persons from helicopters with a winch, e.g. offshore area



INFORMATION BEFORE USE



**Always check every time
before use!**

- The personal protective equipment (PPE) may no longer be used in the case of even very minor faults. Faulty PPE components may only be tested or repaired in a workshop authorised by BORNACK.
- Observe when used with helicopters! The karabiner for closing the holding harness must be selected to prevent unintentional turning and unhooking from the winch hook. Steel karabiners with a triple lock should be selected if possible.

VISUAL INSPECTION

- Check that the system is complete.
- Check that the harness straps, colour-coded attachment loops, seat cloth and shoulder straps are in a flawless condition.
- The seams of the holding and rescue harness may not show any signs of damage.
- The harness straps may not show any visible signs of wear along the entire length.
- The last inspection by an expert was carried out within the past 12 months.
- Identification legible?
- A steel karabiner suitable for the steel karabiner must be used for winch operations.

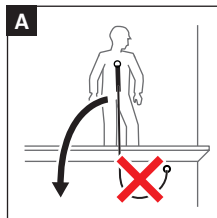
FUNCTION TEST

- Shoulder straps freely adjustable with clamp function.
- Test whether the connector acc. to EN 362 that is used cannot be turned and unhooked from the secured winch hook.

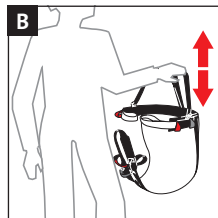
FS DELTA IN USE

PUTTING ON

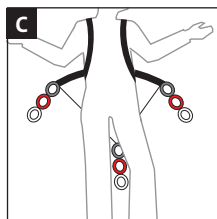
A Attachment points must be adequately strong, according to EN 795, and should be positioned above the user.



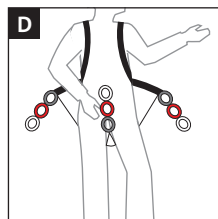
B Take the holding and rescue harness by the shoulder straps and shake out slightly.



C Take the holding and rescue harness by the shoulder straps and put on like a jacket.

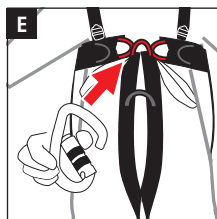


D Feed the tip of the seat cloth between the legs and bring forward.

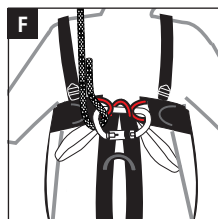


Gather the colour-coded loops (olive, red and yellow/black) depending on the wearer's size/chest measurements.

E Use a karabiner with a TWISTLOCK PLUS lock and gather the coloured loops and hook in together.



F Check that the holding and rescue harness sits correctly and hook the rescue rope/winch hook into the karabiner.



ATTENTION:



It may be necessary to roll up the padded chest strap for small persons and children to reduce the size of the seat cloth. Toddlers and fretful persons/patients should be additionally secured (e.g. extra chest strap).

ATTENTION:



Check that all fasteners are closed correctly.

FS DELTA IN USE

ATTENTION:



When using a helicopter winch: always hook the matching connector acc. to EN 362 between the holding and rescue harness. Never hook the winch hook directly into the holding and rescue harness.

ATTENTION:



This holding and rescue harness is not a full body harness. Do not use in elevated areas where there is a risk of falling!

This holding and rescue harness may only be used to rescue persons in emergency situations or in helicopter operations.

The corresponding flight operation instructions must be observed.

SAFETY REGULATIONS

There is a risk to life if these safety instructions are not observed!

- The personal protective equipment (PPE) may no longer be used even in the case of very minor faults.
- Damaged, fall-stressed, dubious personal protective equipment or safety devices must be immediately withdrawn and not used. The equipment may only be inspected by an expert and/or a workshop authorised in writing by BORNACK. This must be documented in the test card.
- Independent modifications or repairs are not allowed.
- Rope protection is part of the personal fall prevention equipment and should be assigned to a specific person.
- The personal protective equipment may only be used by qualified staff that are familiar with the material. They must be proficient in handling the personal protective equipment and must have been briefed about the possible risks associated with its use.
- In accordance with the accident prevention guidelines (UVV), the users of personal protective equipment against falls (Category III) must attend a theoretical training course and a practical training course. Make use of the training competence of the BORNACK training centres: info@bornack.de.
- Accessories from other manufacturers may only be used if approved by BORNACK and may not impair the function and safety of the protective equipment.
- Clothing and shoes must be suitable for the task at hand and the weather conditions.
- Only use if fully fit and healthy.
- Health impairments can jeopardise the safety of the user when working at heights or depths.
- If this PPE is used as an arrester system (free fall is possible), only full body harnesses that comply with EN 361 may be used.
- Calculation of the possible fall path if all necessary PPE components are used correctly: (if necessary braking path HSG) + surplus lanyard (situation-dependent) + braking path energy absorber (max. 1.75 m) + height of D-ring (1.5 m) + safety reserve 1.0 m.
- Before use, ensure adequate clearance below the user to prevent impact on a protruding object or the ground.
- Protect personal protective equipment during storing, use and transportation against the effects of heat (e.g. welding flames or sparks, burning cigarettes) and chemicals (e.g. acids, alkalis, oils, etc.) and mechanical effects (e.g. sharp edges).
- Before starting work, the responsible person must draw up a plan of rescue measures that defines how to rescue casualties quickly and safely and ensures first aid measures. Persons must be rescued within 10 to 30 minutes. BORNACK can help you draw up tailor-made rescue plans and includes these in the necessary training courses. info@bornack.de
- The local safety guidelines (e.g. in Germany, the DGUV Regulations 198 and 199 by the professional associations) and the accident prevention guidelines for the specific industry (UVV) must be observed.
- Check compatibility with other parts of the PPE.

OTHER

APPROVAL:

Complies with the Regulation (EU) 2016/425 for PPE.

Type testing and production monitoring by:

TÜV SÜD Product Service GmbH
Ridlerstr. 65, D-80339 München
CE 0123

Quality management system certified to DIN EN ISO 9001.

Production monitoring by notified office in accordance with Category III.

REGULAR INSPECTIONS

- This PPE must be inspected by the manufacturer or by an expert at least once a year. The result must be documented in the test card at the end of this User Manual.

SALES

- The dealer must ensure that the User Manual is supplied in the language of the designated country. The respective translation must be authorised by BORNACK.

SERVICE

If you have any further questions about safe use of this PPE or other BORNACK services, such as:

- Risk analysis
- Rescue plans
- Training courses
- Expert inspections

If you have any questions, please contact our e-mail hotline: info@bornack.de

We will be happy to help!

MAINTENANCE

- If necessary, apply a small amount of oil on the joints so that the moving parts of the karabiner and other devices run smoothly.
- Maintenance may only be carried out by a qualified expert. All instructions in this User Manual must be strictly observed.
- Protective equipment that is well looked after will last longer!

CLEANING

- Dry damp personal protective equipment in the air, not on artificial heat sources. Dry metal components with cloths.
- Clean soiled textile components (e.g. arrester harnesses and ropes) with lukewarm water and a little detergent for delicates. Then rinse carefully and allow to dry in the air. Other cleaning agents are not allowed!
- If you have any questions about disinfection, please contact our e-mail hotline: info@bornack.de
- If the personal protective equipment comes into contact with salt-water, keep it wet until it can be rinsed with plenty of distilled water.
- If necessary, use compressed air to blow on the unit.

OTHER

LIFE SPAN

The following recommendation applies for the use of the FS DELTA:

Maximum usage period after being used for the first time: 10 years

In ideal storage conditions and annual inspections, the product may be stored for up to 3 more years before it is used for the first time without impacting on the stated maximum usage period. Every further year in storage reduces the final maximum allowed usage period by 1 year.

For reasons of safety, intensive use and/or extreme application conditions such as sharp edges, chemical influences, UV radiation etc. will reduce the usage period. The company owner needs to ensure this in the workplace risk analysis.

The company owner must ensure compliance with the maximum usage period by documenting first-time use in the test card.

The test card at the end of this User Manual must be presented during the regular expert inspections and be completed by an expert.

For more details, please visit: www.bornack.de

REPAIRS

- For reasons of liability, repairs may only be carried out by the manufacturer.
- Only original spare parts from the manufacturer may be used.

STORAGE

- Dry wet PPE **before** storage.
- Store in a dry place away from direct sunlight.
- Do not store PPE near radiators. Permanent exposure to temperatures above +50 °C has a negative impact on the strength of the textile material and shortens the life span.
- Do not allow PPE to come into contact with aggressive substances (e.g. oils, grease, acids, chemicals etc.).
- Protected storage in the device case or device bag.









TRANSPORT

- Protected transport in the device case or device bag.

OTHER

PRODUCT IDENTIFICATION

The following identification is on the product:

Product name	→	FS DELTA		CE 0123			←	Logo
Product category	→	Rettungsschlaufe						Max. user weight
Product type	→		FSD01/AOED/GU/-	28 100 kg			←	
Size	→		Universal					EN norm
Art. No.	→		1000633		EN 1498-B:2006		←	
Charge	→		18-1234567		BORNACK GmbH & Co. KG			Data matrix
Serial no.	→		001		Bustadt 39, 74360 Ilfeld			Read / observe the User Manual.
Production date	→		12/2018		Germany			

↑ Manufacturer address

EU DECLARATION OF CONFORMITY



EU Declaration of Conformity

The manufacturer or his authorised representative established within the EU

BORNACK GmbH & Co. KG
Bustadt 39
74360 Ilfeld
Germany

hereby declares that the following personal protective equipment

Rescue loop
FS DELTA

- is in conformity with the relevant harmonisation legislation according to Annex V (Module B) of the Regulation (EU) 2016/425 on personal protective equipment according to Article 19 (category III PPE) and is examined to **EN 1498:2006**
- is identical to the PPE that is the object of the **EU type-examination certificate No. P5A 040506 0286 Rev. 00**

issued by

TÜV SÜD Product Service GmbH
Zertifizierstelle
Ridlerstraße 65
80339 München
Germany
CE 0123

- is subject to the assessment of conformity to type, based on internal production control plus supervised product checks according to Module C2 of the Regulation (EU) 2016/425 for personal protective equipment (category III PPE), monitored by the notified body

TÜV SÜD Product Service GmbH
Zertifizierstelle
Ridlerstraße 65
80339 München
Germany
CE 0123

20 March 2020

BORNACK GmbH & Co. KG

A handwritten signature in black ink, appearing to read 'U. Bornack'.

Ulrike Bornack
Managing Director



TEST CARD

FOR ANNUAL MONITORING

The test list must be completed in full by the expert during the annual inspection.

This test list does not claim to cover all test criteria and does not relieve the expert from his decision about the overall condition.

Type product name: _____

Production date: _____

Serial no.: _____

Purchase date: _____

Date of first Use: _____

Maximum life span until: _____

	Date	Signature	Next inspection	Reason for inspection
Year 1				
Year 2				
Year 3				
Year 4				
Year 5				
Year 6				
Year 7				
Year 8				
Year 9				
Year 10				



FALLSTOP

Safety equipment for securing and rescuing at heights and depths

SAFEPOINT

Planning and assembly of stationary securing systems

BORNACK GmbH & Co. KG

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74360 Ilsfeld
Germany

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