

FALLSTOP[®] FS BK

User Manual

FALLSTOP® FS BK

Guided type fall arrester including a flexible anchor line

Subject to technical changes

BRIEF DESCRIPTION

INTENDED USE

The FALLSTOP® FS BK is part of personal protective equipment (PPE) of category III to prevent falls from heights. The FALLSTOP® FS BK is a guided type fall arrester including a flexible anchor line that arrests falls acc. to EN 353-2. In combination with a full body harness acc. to EN 361, it serves to secure one person from falling from ladders, scaffolds, roofs etc. No additional fall arrester is required.

- Maximum number of users: 1 person
- Application temperature: -20 °C to +60 °C

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

FUNCTION

Pulling once on the connecting band upward toward the anchor point moves the fall arrester upwards on the rope. If a force is applied downwards on the connecting band, e.g. in the event of a fall, the fall arrester FALLSTOP® FS BK clamps to the rope. The fall arrester does not stop abruptly but cushions the fall impact by means of defined friction on the safety rope and reduces the fall impact force to max. 6.0 kN.

BRIEF DESCRIPTION

Panic function (Type FSBK03):

The fall arrester needs to be moved manually to adjust the length of the safety rope, in particular in horizontal or tilted applications.

If a fall occurs at this moment, it cannot be ruled out that the user will grab the unlocked fall arrester in a panic and therefore, despite a fall, there is no pull on the connecting band: the above-mentioned clamping function would be obstructed and safe blocking would not be possible. Therefore, the fall arrester type FSBK03 has a second independent clamp function (panic lock) that securely stops the fall arrester on the safety rope by clenching the device.

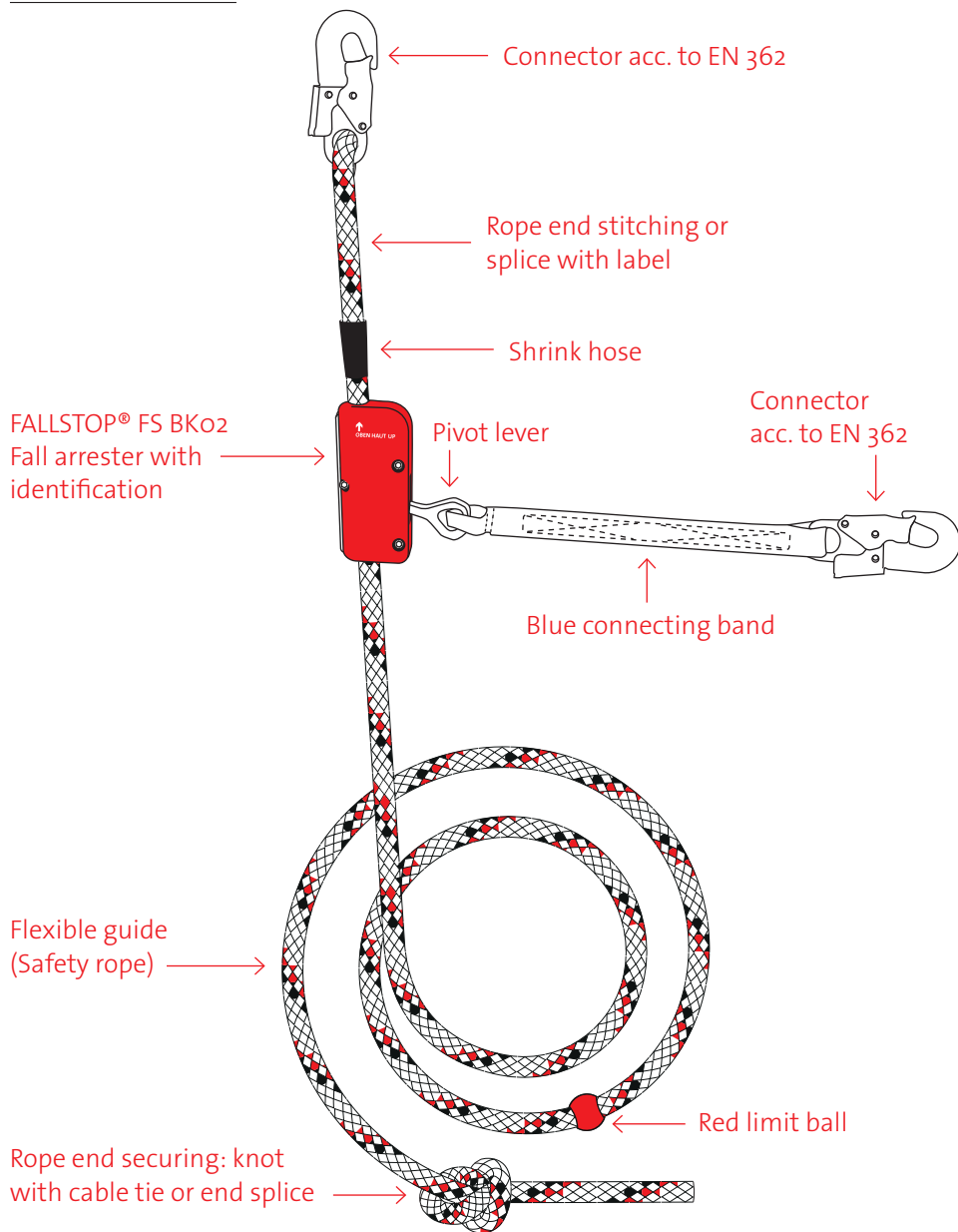
EQUIPMENT

- The FALLSTOP® FS BK fall arrester (rope shortener) made of aluminium that arrests falls acc. to EN 353-2
- Type FSBK03 also: Panic lock
- blue connecting band made of polyester, length 0.5 m (information incl. pivot lever and connector acc. to EN 362)
- flexible guide, manufactured made of modern polyamide fibres:
 - BORNACK kernmantel rope TECSTATIC 12 mm (TECS12.o)
 - BORNACK twisted rope PROFI 16 mm (PROFI16.o)
 - useful length respectively up to the red limit ball
- optional: rope protector made of plastic above the fall arrester, length 0.6 m
- Connector acc. to EN 362 made of aluminium or steel
- Type FSBK03 plus: spring as safety reserve for unlocking

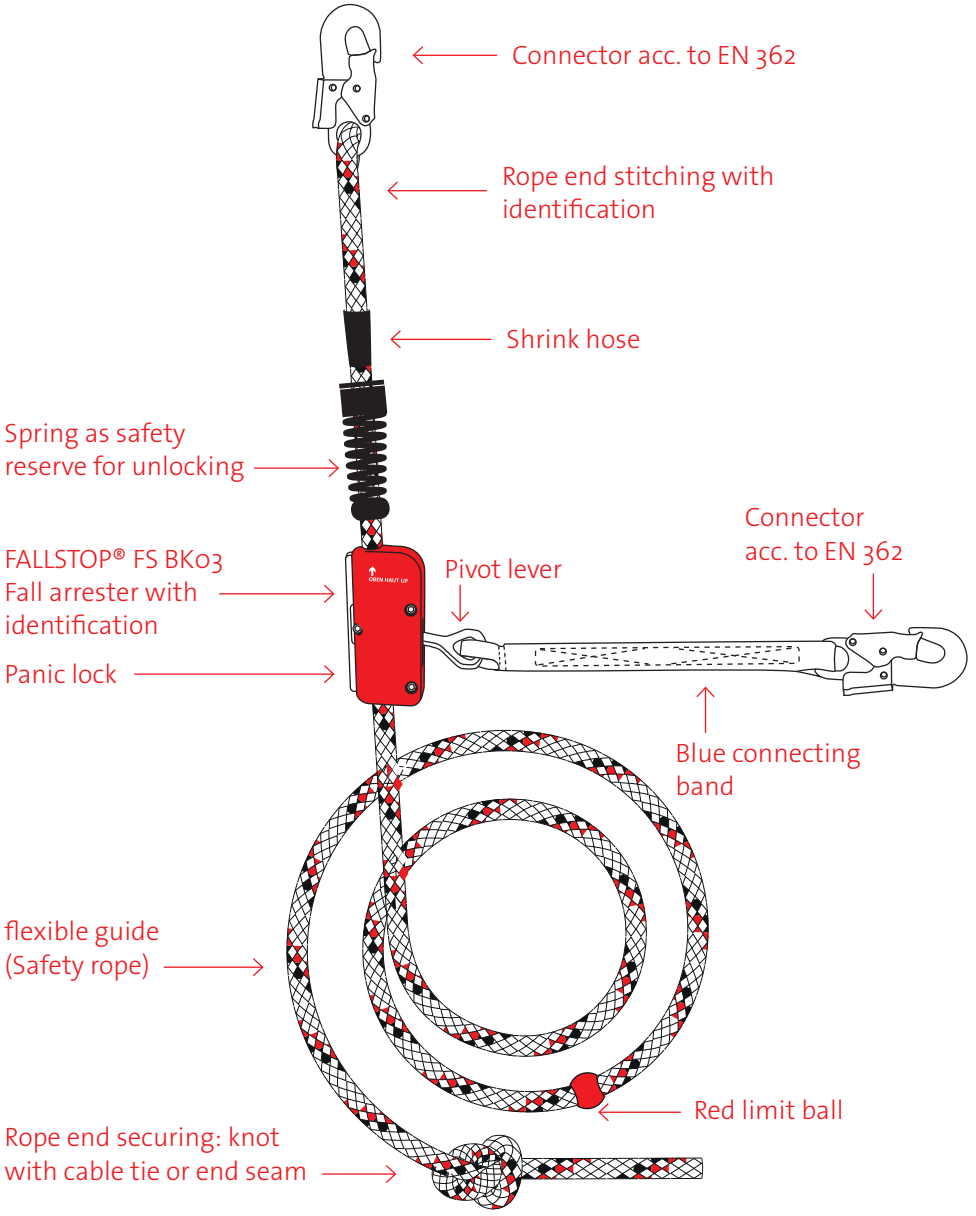
USE

- Securing
- Arresting
- Restraint

FALLSTOP® FS BK02

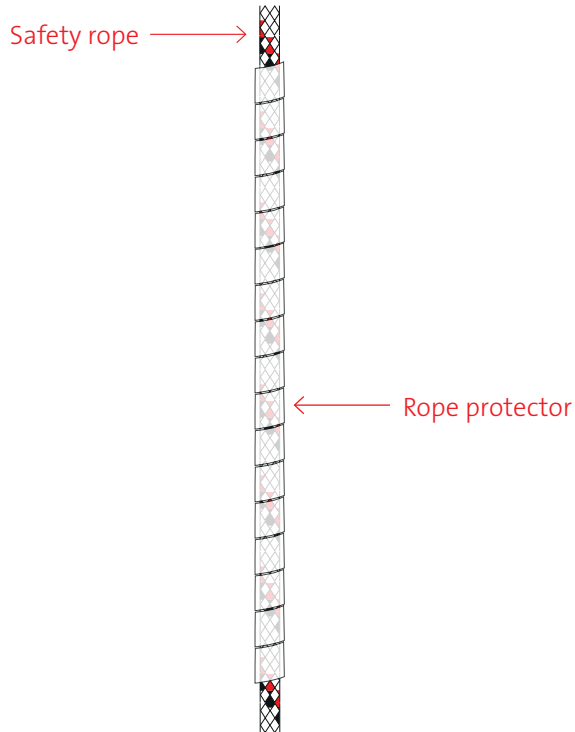


FALLSTOP® FS BK03



ROPE PROTECTOR (OPTIONAL)

The optional rope shortener is located between the fall arrester and shrink hose (type FSBKo2) and/or between the fall arrester and the spring as safety reserve for unlocking (type FSBKo3).



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 by BORNACK or in a workshop authorised in writing by BORNACK.
- Regular inspections are essential because the safety of the user depends on the efficiency and durability of the PPE.
- The user must have completely read and understood the User Manual before use.

VISUAL INSPECTION

- Check that the rope protection is complete.
- All seams are undamaged. There are no visible signs of damage to the textile components nor can faults be felt with the hands.
- Housing and connectors acc. to EN 362 show no obvious signs of damage and are not bent. Fasteners of the connectors acc. to EN 362 and their locks are functional.

- No knots in the safety rope. Exception: if the rope end securing on a safety rope needs to be a knot, this must be in place.
- Red limit ball is on the safety rope and cannot be moved.
- The last inspection by an expert was carried out within the past 12 months.

FUNCTION TEST

- Hold the safety rope below the fall arrester and pull the fall arrester on the blue connecting band toward the anchor point. The fall arrester must slide easily over the safety rope.
- Hold the safety rope above the fall arrester and pull the fall arrester on the blue connecting band on the safety rope toward the lower rope end securing. The fall arrester must be clamped tightly to the safety rope.

FALLSTOP® FS BK IN USE

BLOCKING

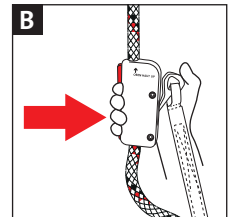
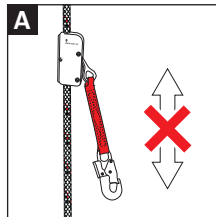
A The fall arrester can be blocked at a position on the rope by pulling the connecting band downwards toward the rope end securing.

ATTENTION:

When the fall arrester type FSBK03 blocks, ensure that there is enough space for unlocking.



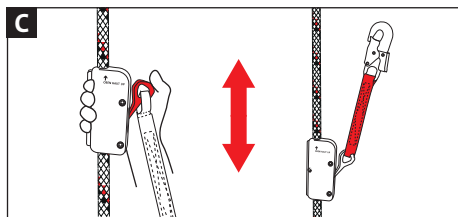
B Also on type FSBK03: This device can also be blocked by the panic lock. In the event of a fall, the user may try to grab the device and press the panic lock with their hand: the device blocks.



FALLSTOP® FS BK IN USE

UNLOCKING: TYPE FSBK02

C Open the pivot lever upwards toward the anchor point or alternatively, pull the blue connecting band upwards. Now the fall arrester can be moved on the safety rope again to the required position and the safety length can be adjusted.



CAUTION: RISK TO LIFE!



When unlocking the fall arrester, the thumb should never be below the pivot lever or connecting band! In the event of a fall, the thumb would be injured and/or (type FSBK02) the blocking function of the device is restricted.

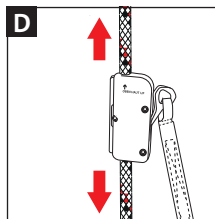
CAUTION: RISK TO LIFE!



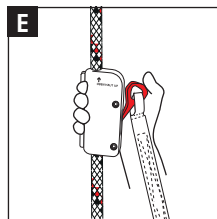
Take your hand from the device again after adjusting the safety length!

LOCKING: TYPE FSBK02

D To unlock, keep the safety rope taut.



E Open the pivot lever of the fall arrester upwards and hold open with the thumb.



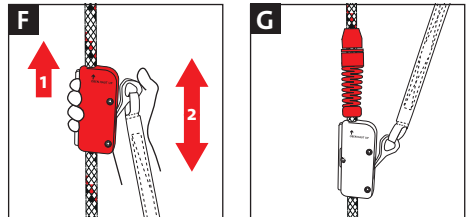
FALLSTOP® FS BK IN USE

CAUTION: RISK TO LIFE!



When unlocking the fall arrester, the thumb should never be below the pivot lever or connecting band! In the event of a fall, the thumb would be injured and/or (type FSBK02) the blocking function of the device is restricted.

F Move the device approx. 2-5 cm toward the anchor point: this unlocks the device. Now the device can be moved on the safety rope again and the safety length can be adjusted.



CAUTION: RISK TO LIFE!



Take your hand from the device again after adjusting the safety length!

ATTENTION:



When the fall arrester type FSBK03 blocks, ensure that there is enough space for unlocking.

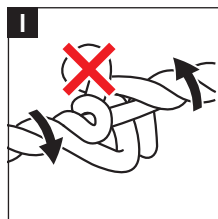
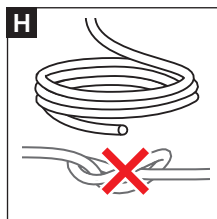
G The safety rope of the FALLSTOP® FS BK type FSBK03 has a spring on the upper end below the shrink hose. The spring path serves as a safety reserve for unlocking.


FALLSTOP® FS BK IN USE


SAFETY ROPE

H Lay out the safety rope carefully. The rope may not be knotted.

I Do not twist the twisted rope (type PROF16) against the 'rope rotation'. This leads to the creation of kinks and damage. These kinds of damaged ropes need to be replaced.



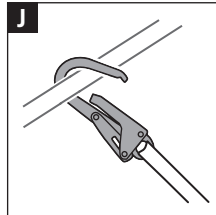
ATTENTION: 
The FALLSTOP® FS BK safety rope may only be used in combination with the supplied FALLSTOP® FS BK fall arrester. Other runners are not allowed!

CAUTION: RISK TO LIFE! 
The conditions of wet or frozen areas may vary! There is little to no braking effect on wet or frozen ropes!

FALLSTOP® FS BK IN USE

ATTACHMENT TO THE ANCHOR POINT

J Attach the connector (EN 362) of the safety rope to a secure anchor point.



CAUTION: RISK TO LIFE!

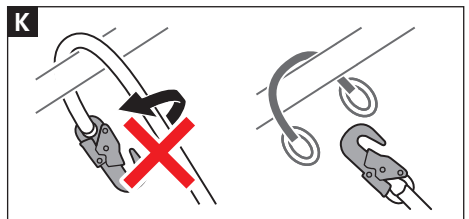


Anchor points must be adequately strong (observe EN 795 and/or DGUV Regulation 112-198)!

CAUTION: RISK TO LIFE!



When selecting the attachment point, minimise the fall height and/or the free fall!



K Protect the connector acc. to EN 362 against shearing forces (bending).

CAUTION: RISK TO LIFE!



The FALLSTOP® FS BK may not be used in a noose or cow hitch! Instead, create an attachment point with a tape sling (e.g. PROTEC S)!

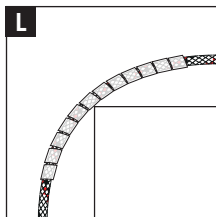
Read the User Manual of the connector according to EN 362.



FALLSTOP® FS BK IN USE

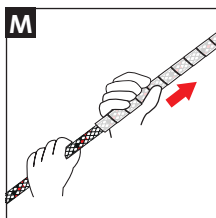
ROPE PROTECTOR (OPTIONAL)

- L** The rope shortener serves to protect the rope on edges, roof ridges, pipes, scaffolds etc. The rope shortener is positioned so that the affected rope section is covered by the rope shortener.




Moving the rope shortener:

- M** Keep the rope taut. Move the rope shortener to the required position, do not pull.

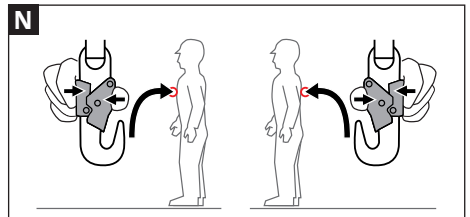



FALLSTOP® FS BK IN USE

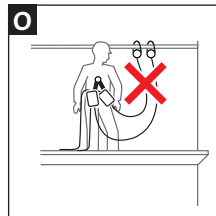
ATTACHMENT TO THE FULL BODY HARNESS

Observe the User Manual of the full body harness acc. to EN 361. 

N Hook the connector acc. to EN 362 of the blue connecting band to the front or rear D-ring of the full body harness marked with A. It is recommended using the front D-ring, if the work position allows this.



CAUTION: RISK TO LIFE! 
No further lanyards may be used between the connector (EN 362) of the connecting band and the D-ring of the fall arrester!

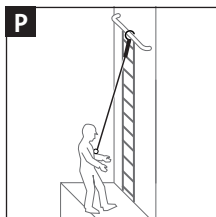


O Two individual securing systems FALLSTOP® BK may not be used in parallel.

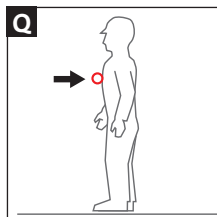
FALLSTOP® FS BK IN USE

SECURING ONE PERSON WHEN CLIMBING / WITH GUIDED TYPE FALL ARRESTER

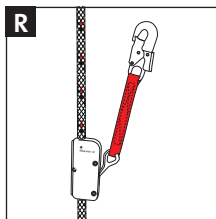
P Attach the FALLSTOP® FS BK safety rope to the attachment point above the ascent.



Q Hook the connector acc. to EN 362 of the fall arrester into the front D-ring of the full body harness.



R When climbing, the fall arrester also needs to be moved smoothly on the rope.



CAUTION: RISK TO LIFE!



Ensure that the fall arrester also moves during climbing and that there is no slack rope. Slack rope extends the fall path.

FALLSTOP® FS BK IN USE

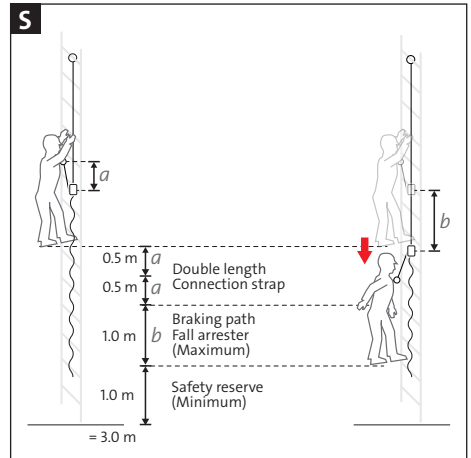
S Ensure adequate clearance below the user to prevent impact on a protruding object or the ground.

ATTENTION:

When starting to ascend near the ground, it is possible, under unfavourable circumstances, that the legs will hit the ground when the fall is arrested.

CAUTION: RISK TO LIFE!

The conditions of wet or frozen areas may vary! There is little to no braking effect on wet or frozen ropes!



FALLSTOP® FS BK IN USE

SECURING ONE PERSON ON PLATFORMS/ /RESTRAINT & POSITIONING

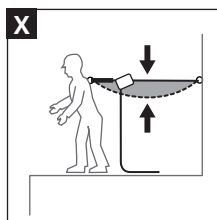
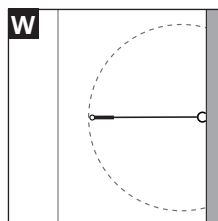
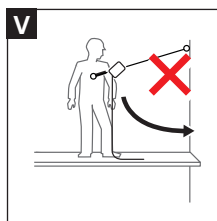
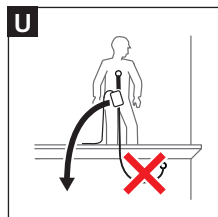
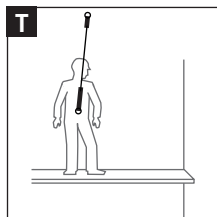
T If possible, select an attachment point vertically above the work point.

U The anchor point must lie above where the person is standing.

V Do not select an anchor point to the side of the secured person! Otherwise, the person could bang into parts or a wall.

W When working on the fall edge, position the arresting device on the safety rope so that the user can just reach the fall edge but cannot fall.

X Avoid slack rope.



ATTENTION:



Always keep the safety rope taut. A fall over the edge should be ruled out. Do not set the rope length in the moment when the user moves toward the fall edge.

FALLSTOP® FS BK IN USE

COMBINATION

When combining this product with other parts, there is a risk of mutual impairment with respect to the function and safety. Compatibility must be assessed during the risk analysis. Only combine with personal protective equipment that bears a CE symbol. If you have any questions about compatibility or you require help with the risk analyses, feel free to contact BORNACK.

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 in compliance with DGUV (German Social Accident Insurance) principle 312-906, by BORNACK or by 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
- 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 when climbing if all necessary PPE components are used correctly without slack rope: double length connecting band (2 x 0.5 m = 1 m) + braking path fall arrester (max. 1.0 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) and mechanical impact (e.g. sharp edges).

SAFETY REGULATIONS

- The combinability and protective effect of the PPE must be checked for each hazard situation (risk assessment).
- Parts of complete systems that were delivered may not be replaced.
- If a casualty hangs motionless in a full body harness for a longer time, blood cannot flow back from the legs and/or the flow may be interrupted. This can lead to a suspension trauma, a circulatory shock with serious to fatal consequences.
- 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. Casualties must be rescued within 20 minutes. BORNACK can help you draw up tailor-made rescue concepts and includes these in the necessary training courses.
- The local safety guidelines (e.g. in Germany, the DGUV Regulations 112-198 and 112-199 issued by the professional associations) and the accident prevention guidelines for the specific industry (UVV) must be observed.

E-mail hotline: info@bornack.de

OTHER

APPROVAL:

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

Type testing and production monitoring by:

DEKRA Testing and Certification GmbH
Dinnendahlstr. 9, D-44809 Bochum
CE 0158

Quality management system certified to ISO 9001:2015.

Production monitoring by notified office in accordance with Category III.

REGULAR INSPECTIONS

- This personal protective equipment must be inspected at least once a year by an expert in compliance with DGUV Principle 312-906. 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 this PPE or other BORNACK services, such as:

- Risk analyses
- Rescue concepts
- Training courses
- Expert inspections
- Technical inspections
- Maintenance + inspections

please contact our e-mail hotline:
info@bornack.de

We will be happy to help!

OTHER

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. If possible, use precision mechanics oil. Ensure that the oil does not come into contact with textile PPE components.
- Maintenance may only be carried out by a qualified expert in compliance with DGUV Principle 312-906. All instructions in this User Manual must be strictly observed.
- Protective equipment that is clean and 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 disinfection is necessary, please contact the 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.
- Use compressed air to blow on the unit if necessary.

OTHER

LIFE SPAN

The following recommendation applies for the use of the FALLSTOP® FS BK:

Maximum usage period after being used for the first time: 8 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.

Metal parts are not subject to age-related life span deadlines. The expert makes a decision based on his technical expertise and the latest version of the standard.

The service life can only be prolonged by means of regular expert inspections and the replacement of age-related worn parts (e.g. ageing of textile components).

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 take this into account 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 BORNACK or in a workshop authorised in writing by BORNACK.
- Only original spare parts from the manufacturer may be used.

OTHER

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 below 0 °C or 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). Precision mechanics oils may be applied to moving metallic parts during maintenance. Always ensure that textile PPE components do not come into contact with the oil.
- Do not store personal protective equipment close to aggressive substances (see above) because even the vapours of aggressive substances can have a negative effect on the strength of the PPE.
- 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:

**Identification fall arrester type FSBK02
(permanently connected to the safety rope):**






Product name	→	FALLSTOP® FS BK02	
Product category	→	Auffang- und Positioniersystem	
Type	→	 FSBK02/FS51/ TECS12.0,WH,RD/FS51/-	
Article no.	→	 1000463_M005	
Charge	→	 20-1234567	
Serial no.	→	 001	
Production date	→	 08/2020	
Data matrix	→	 EN 353-2:2002	← EN norm
CE symbol and number of the test office	→	 0158	
Manufacturer address	→	BORNACK GmbH & Co. KG Bustadt 39 74360 Ilsfeld/Germany	← Observe/read the User Manual
			

OTHER

**Identification fall arrester type FSBK03
(permanently connected to the safety rope):**

Product name	→	FALLSTOP® FS BK03	
Product category	→	Auffang- und Positioniersystem	
Type	→	 FSBK03/FS51/ TECS12.0,WH,RD/FS51/-	
Article no.	→	 1003564_M005	
Charge	→	 20-1234567	
Serial no.	→	 001	
Production date	→	 08/2020	
Data matrix	→	 EN 353-2:2002	← EN norm
CE symbol and number of the test office	→	 0158	
Manufacturer address	→	BORNACK GmbH & Co. KG Bustadt 39 74360 Ilsfeld/Germany	← Observe/read the User Manual

**Identification safety rope
(permanently connected to the fall arrester):**

Length	→	 5 m
Charge	→	 20-1234567
Serial no.	→	 001
Production date	→	 08/2020
Data matrix	→	

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 Ilsfeld
Germany

hereby declares that the following personal protective equipment

Guided type fall arrester including a flexible anchor line
FALLSTOP FS BK

- 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 353-2:2002**
- is identical to the PPE that is the object of the **EU type-examination certificate No. ZP/B032/21**

issued by _____

DEKRA Testing and Certification GmbH
Dinnendahlstraße 9
44809 Bochum
Germany
CE 0158

- 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

DEKRA Testing and Certification GmbH
Dinnendahlstraße 9
44809 Bochum
Germany
CE 0158

25 March 2021

BORNACK GmbH & Co. KG

A handwritten signature in black ink that reads "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 FALLSTOP® FS BK: _____

Production date: _____ / _____
Device Rope

Charge: _____ / _____
Device Rope

Serial no.: _____ / _____
Device Rope

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				

TEST CARD

FOR ANNUAL MONITORING

Please complete:

Year	1st	2nd	3rd	4th	5th	6th	7th	8th
All components in place?								
Rope undamaged?								
Seams undamaged?								
Rope end connections undamaged?								
No mechanical damage?								
No chemical soiling?								
No deformation of metal parts?								
No corrosion damage?								
Condition of the springs/rivets/axles OK?								
Connectors acc. to EN 362 in place and functional?								

Continued on the next page

TEST CARD

FOR ANNUAL MONITORING

Please complete:



Year	1st	2nd	3rd	4th	5th	6th	7th	8th
Red limit ball is on the safety rope and cannot be moved?								
Function test: free movement without load/blocking with and without the load of a person in the arresting direction?								
Function test also on type FSBK03: Blocking/unlocking of the panic lock?								
Identification legible?								
User Manual available?								
OK								
Blocked								



FALLSTOP

Safety equipment for securing and rescuing at heights and depths

SAFEPOINT

Planning and assembly of stationary securing systems

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