

LORY STOP

User Manual

LORY STOP

Arresting and positioning system

Subject to technical changes

BRIEF DESCRIPTION

INTENDED USE

The LORY STOP arresting and positioning system is part of personal protective equipment (PPE) of category III to prevent falls from heights. In combination with a full body harness acc. to EN 361, the LORY STOP only serves to secure one person working in elevated areas where there is a risk of a fall, e.g. on masts, steel constructions, roofs, platforms, machines etc. It limits the impact force when arresting a falling person and is therefore suitable for securing a free fall.

Due to the length adjustment of the LORY rope, it is also suitable for holding a person away from a fall edge and for positioning.

The securing device LORY STOP does not run automatically on the rope in the case, it is moved manually along the rope.

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

- Maximum number of users: 1 person
- Maximum user weight including clothing and equipment:
 - 100 kg (use acc. to EN 353-2, arresting)
 - 150 kg (use acc. to EN 358, restraint)
- 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.

EQUIPMENT

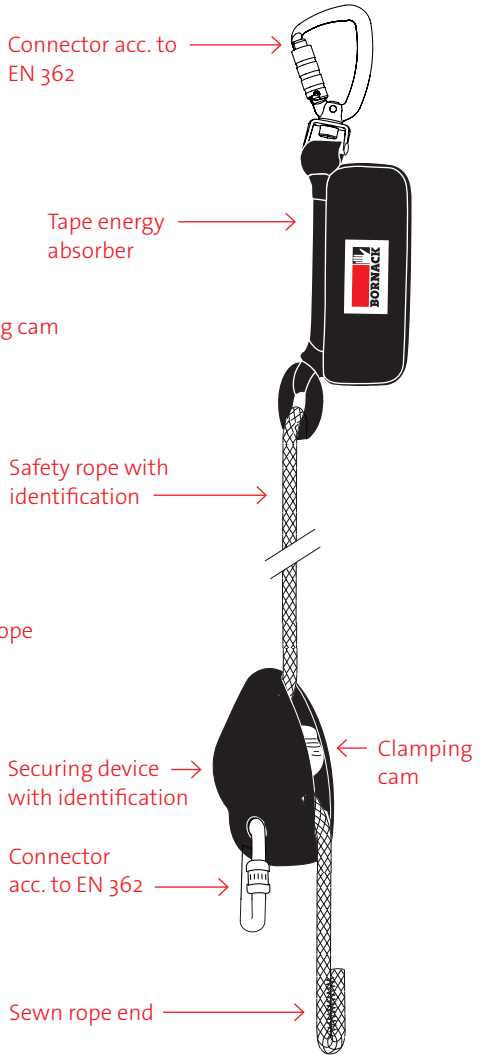
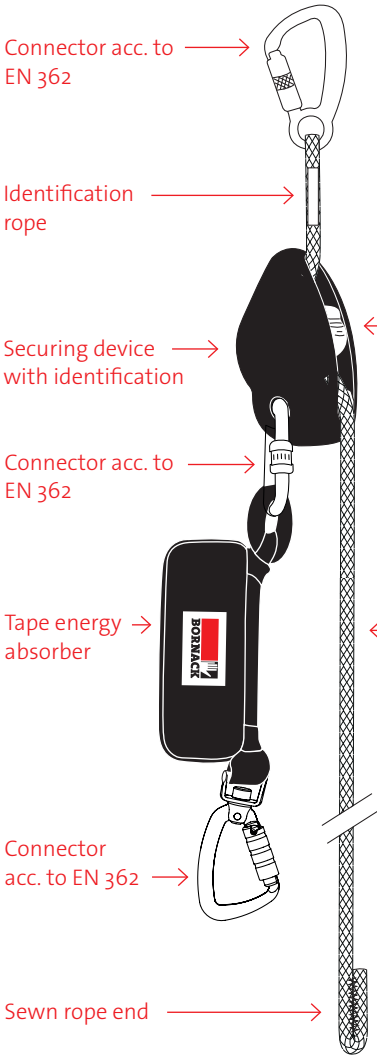
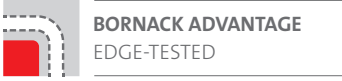
- LORY HOLD securing device, cannot be opened
- Connector acc. to EN 362 made of aluminium or steel
- LORY STOP safety rope TECSTATIC PRO 11 mm with connector acc. to EN 362 made of aluminium or steel
- Tape energy absorber BFDo3 with connector according to EN 362 made of aluminium or steel

USE

- Arresting EN 353-2
- Restraint EN 358

**LORY STOP (TAPE ENERGY ABSORBER
ON THE SECURING DEVICE)**

**LORY STOP (TAPE ENERGY ABSORBER
ON THE SAFETY ROPE)**



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

- All components are in place and undamaged.
- All seams are undamaged.
- There are no visible signs of damage to the textile components nor can faults be felt with the hands.
- No damage to fittings, D-rings, buckles or connectors.
- Product identification legible.
- The last inspection by an expert was carried out within the past 12 months.

FUNCTION TEST

- Fasteners of the connector acc. to EN 362 and their locks are functional.
- The clamping cam is smooth running. The blocked rope can be unlocked.
- Check clamping function.
 - LORY STOP blocks when let go under a tensile load.

LORY STOP IN USE

PREPARATION

Wear safety gloves.

CAUTION: RISK TO LIFE!



If this PPE is used as an arrester system (free fall is possible), only full body harnesses that comply with EN 361 or EN 12277 may be used.

ATTENTION:



Only use D-rings/loops on the full body harness marled with 'A'. Only these points are strong enough to withstand a fall.

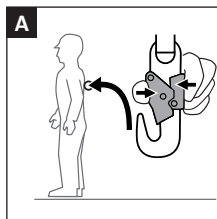
A Hook the LORY STOP through the D-ring of the full body harness.

ATTENTION:



Check that the connector acc. to EN 362 are closed correctly.

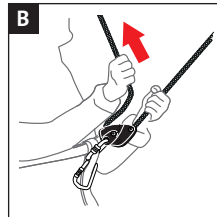
Observe the User Manual of the connector according to EN 362.



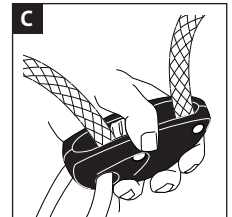
LORY STOP IN USE

OPERATION

B To shorten, pull the free end of the rope through the securing device LORY STOP until the rope is taut or the required rope length has been reached. The safety rope blocks automatically when the rope is jerked.

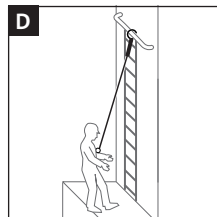


C To lengthen, push the clamping cam with the thumb of the operating hand and keep pressed. If necessary, pull the rope through the securing device LORY STOP or pull on the taut rope to remove from the anchor point until the required work position has been reached. Release the clamping cam; the safety rope blocks automatically when the rope is jerked.

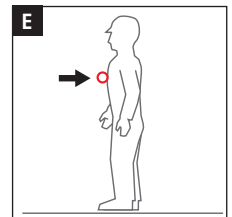


SECURING ONE PERSON WHEN CLIMBING / WITH GUIDED TYPE FALL ARRESTER

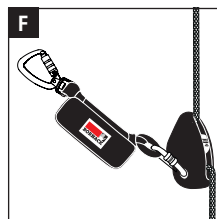
D Attach the LORY STOP safety rope to the attachment point above the ascent.



E Hook the connector acc. to EN 362 of the tape energy absorber of the securing device into the front D-ring or the full body harness.



F When climbing, the securing device also needs to be moved on the rope.




CAUTION: RISK TO LIFE!



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

LORY STOP IN USE


G Before using, ensure adequate clearance below the user to prevent impact on a protruding object or the ground.

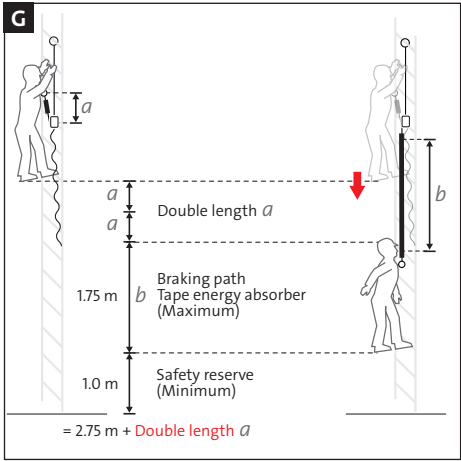
CAUTION: RISK TO LIFE! 
The length *a* of the connection between the securing device and D-ring must also be calculated into the required space (twice)!

The length *a* comprises the length of the connector between the securing device and tape energy absorber, the length of the tape energy absorber and the length of the connector of the tape energy absorber.

Example with LORY HOLD type: LOSo1/OLIo1, BFD03,ASWTL+ $a = 0.45\text{ m}$

$$[2.75\text{ m}] + [2 \times 0.45\text{ m}] = 3.65\text{ m required space}$$

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.



LORY STOP IN USE

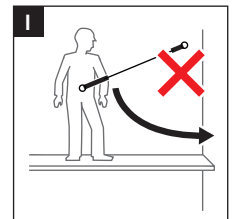
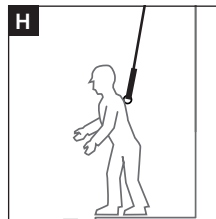
SECURING ONE PERSON ON PLATFORMS/ RESTRAINT & POSITIONING

ATTENTION:



The horizontal use over edges is only allowed with LORY STOP with a tape energy absorber on the securing device! The LORY STOP with a tape energy absorber on the safety rope may not be used horizontally over edges!

H Attach the connector acc. to EN 362 of the safety rope to an adequately strong anchor point (observe 12 kN according to EN 795 and/ or DGUV Regulation 112-198).

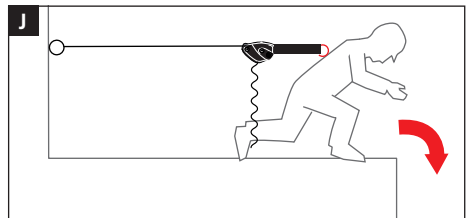


ATTENTION:



Check that the connector acc. to EN 362 are closed correctly.

I Keep the safety rope taut and select an anchor point directly above or behind the possible fall position to reduce the arresting distance and swinging after a fall.



J Adjust the safety rope to the required length.

ATTENTION:



The distance to the fall edge may not be exceeded. No slack rope!

ATTENTION:



The conditions of wet or frozen areas may vary!

LORY STOP IN USE

The LORY STOP with a tape energy absorber has also been tested successfully for horizontal use and a resulting simulated fall over the edge. A burr-free steel rod with an edge radius $r = 0.5$ mm was used. Based on this test, the LORY STOP with a tape energy absorber is suitable for use on similar edges, for instance on rolled steel profiles, wooden beams or parapet panels. Regardless of this test, if the device is used horizontally or at an incline where there is a risk of falling over an edge, the following information must always be taken into account.

ATTENTION:



The horizontal use over edges is only allowed with LORY STOP with a tape energy absorber on the securing device! The LORY STOP with a tape energy absorber on the safety rope may not be used horizontally over edges!

ATTENTION:



Carry out a risk assessment before use:

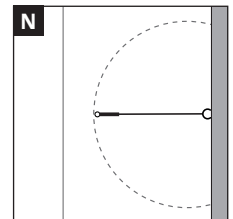
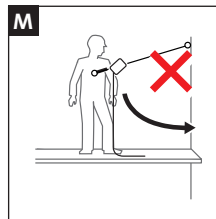
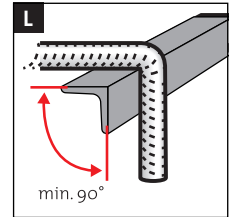
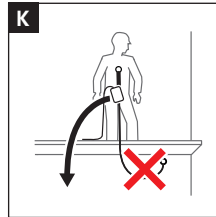
- Is the radius of the fall edge greater than 0.5 mm?
- Is the edge burr-free?


If this is not the case, precautions should be taken:

- Use a retention system to rule out a fall.
- Attach a suitable edge protection.

LORY STOP IN USE

- K** The anchor point must lie above where the person is standing.
- L** The deflection at the edge must be at least 90° .
- M** Do not select an anchor point to the side of the secured person! Otherwise, the person could bang into parts or a wall. To prevent swinging after a fall, the work areas or side movements from the middle axles on both sides must be limited to max. 1.5 m. In other cases, no individual attachment points should be used, instead e.g. attachment devices of the types C (only if approved for joint use) or D according to EN 795 should be used.



CAUTION: RISK TO LIFE! 
If the LORY STOP with a tape energy absorber on the securing device is used with an attachment device acc. to EN 795-C, the movement of the attachment device needs to also be taken into account when calculating the required free space below the edge!

Observe the User Manual of the anchor equipment.



- N** 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. Avoid slack rope. Slack rope extends the fall path.

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

LORY STOP IN USE

○ Ensure adequate space below the edge.

CAUTION: RISK TO LIFE!



The excess rope (slack rope) is the difference between the securing length a and the distance between the anchor point and fall edge b and needs to be calculated into the required space!

ATTENTION:

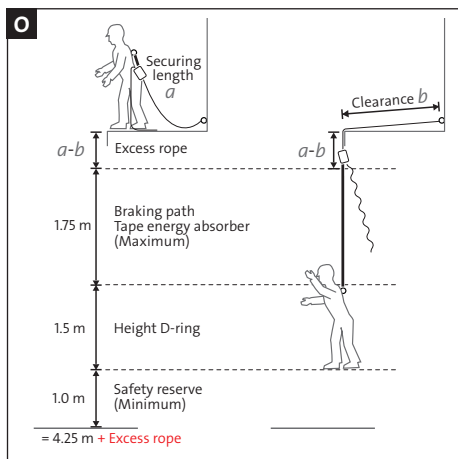


When falling over an edge there is a risk of injury during the fall by banging into the building or parts of the construction.

ATTENTION:



In the event of a fall over an edge, special measures need to be defined and practised.



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 or 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 protective 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 connection between the securing device and D-ring ($2 \times a$) + braking path energy absorber (max. 1.75 m) + safety reserve 1.0 m.
- 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) and mechanical impact (e.g. sharp edges).
- The combinability and protective effect of the PPE must be checked for each hazard situation (risk assessment).
- This PPE has been tested and approved for edge loads. However, extreme loads are always a risk factor. BORNACK recommends using edge protection collars.
- 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.

SAFETY REGULATIONS

- 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.
E-mail hotline: info@bornack.de
- 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.
- Icy or heavily soiled ropes can hinder the blocking mechanism and cause the load to fall. Maintain and clean the ropes on a regular basis.
- The securing device and the respective rope must be tested and certified as one unit. No other ropes may be used.

OTHER

APPROVAL:

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

EU type testing (Module B) and production monitoring (Module C2) by:

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

Quality management system certified to ISO 9001:2015.

Production monitoring by notified office in accordance with Category III.

For LORY STOP with the tape energy absorber on the securing device additional product testing for 'Horizontal use' and 'load over edge' ($r = 0.5 \text{ mm}$) acc. to CNB/P/11.075.

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 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!

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!

OTHER

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.

LIFE SPAN

The following recommendation applies for the use of the LORY STOP:

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.

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 PSA **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

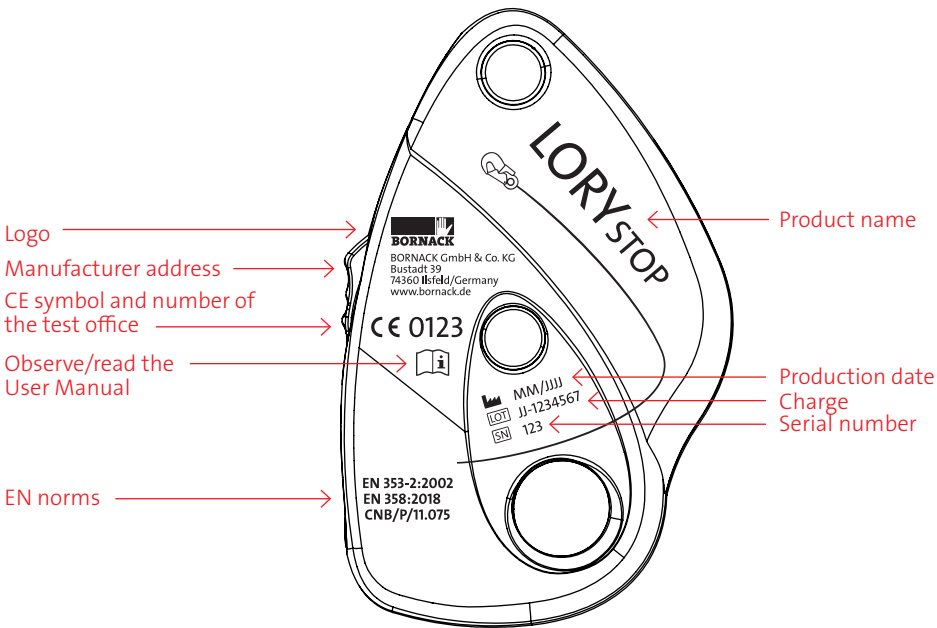
- Protected transport in the device case or device bag.

OTHER

PRODUCT IDENTIFICATION

The following identification is on the product:

Identification securing unit:



OTHER

**Identification safety rope
(LORY STOP with tape energy absorber on the securing device):**

CE symbol and number of the test office edge tested, see page 9
 can be used horizontally Do not load over sharp edges

Product name	→	LORY STOP	←	Logo
Product category	→	Auffang- und Positioniersystem	←	
Product type	→	TYP LOS01/OLI01,BFD03,FS70/ TECSP11.0,WH,RD/N261GTRTL+/-	←	Data matrix
Rope length	→	10 m	←	Max. user weight
Art. No.	→	1006600_M010	←	
Charge	→	21-1234567	←	
Serial number	→	001	←	Observe/read the User Manual
Production date	→	05/2021	←	
		EN 353-2:2002 100 kg EN 358:2018 150 kg		
		BORNACK GmbH & Co. KG Bustadt 39, 74360 Ilsfeld Germany		

EN norms Manufacturer address

**Identification safety rope
(LORY STOP with tape energy absorber on the safety rope):**

CE symbol and number of the test office

Product name	→	LORY STOP	←	Logo
Product category	→	Auffang- und Positioniersystem	←	
Product type	→	TYP LOS01/OLI01,-/TECSP11.0, BFD03,N261GTRTL+/-/-/	←	Data matrix
Rope length	→	10 m	←	Max. user weight
Art. No.	→	1000001_M010	←	
Charge	→	21-1234567	←	
Serial number	→	001	←	Observe/read the User Manual
Production date	→	05/2021	←	
		EN 353-2:2002 100 kg EN 358:2018 150 kg		
		BORNACK GmbH & Co. KG Bustadt 39, 74360 Ilsfeld Germany		

EN norms 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 Ilsfeld
Germany

hereby declares that the following personal protective equipment

Guided type fall arrester including a flexible anchor line / Lanyard for work positioning and restraint
LORY STOP

- 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 EN 358:2018 CNB/P/11.075
- is identical to the PPE that is the object of the
EU type-examination certificates
No. P5A 040506 0306 Rev. 00 P5A 040506 0307 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

10 June 2021

BORNACK GmbH & Co. KG

A handwritten signature in blue ink, appearing to read 'Ulrike Bornack', written over a light blue horizontal line.

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 LORY STOP: _____

Production date: _____

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				
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

Bustadt 39
74360 Ilsfeld
Germany

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Fax + 49 (0) 70 62 / 26 90 0-550
info@bornack.de
www.bornack.de

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Status: 06/2021 GAL Art. No. 8000150_EN ebo/anh

