



BOA

User Manual

BOA

Restraint lanyard with clamping function for round masts

Subject to technical changes

BRIEF DESCRIPTION

INTENDED USE

The BOA restraint lanyard is part of personal protective equipment (PPE) of category III to prevent falls from heights. In combination with a body harness acc. to EN 361 with positioning D-rings on the sides or a positioning belt acc. to EN 358, the BOA restraint lanyard only serves to secure persons working on wooden masts, for communication and overhead cables acc. to DIN 48350 (or masts with comparable dimensions and surface friction). These masts must have a specific diameter at the top and bottom areas.

- \varnothing top area:
 - 12.0 cm
 - 16.0 cm
 - 25.0 cm
- \varnothing foot area:
 - 16.0 cm
 - 25.0 cm
 - 34.0 cm

In contrast to other previously used securing systems, the BOA restraint lanyard prevents slipping on the wooden mast. If the surface of the mast is wet, covered in moss and/or ice, an adequate clamping effect cannot be guaranteed - this should be taken into account when used.

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.

The BOA restraint lanyard does not have an energy absorber and, therefore, may not be used to arrest a fall! It may only be used to secure, hold and prevent slipping.

- Maximum user weight including clothing and equipment 140 kg

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

BRIEF DESCRIPTION

FUNCTION

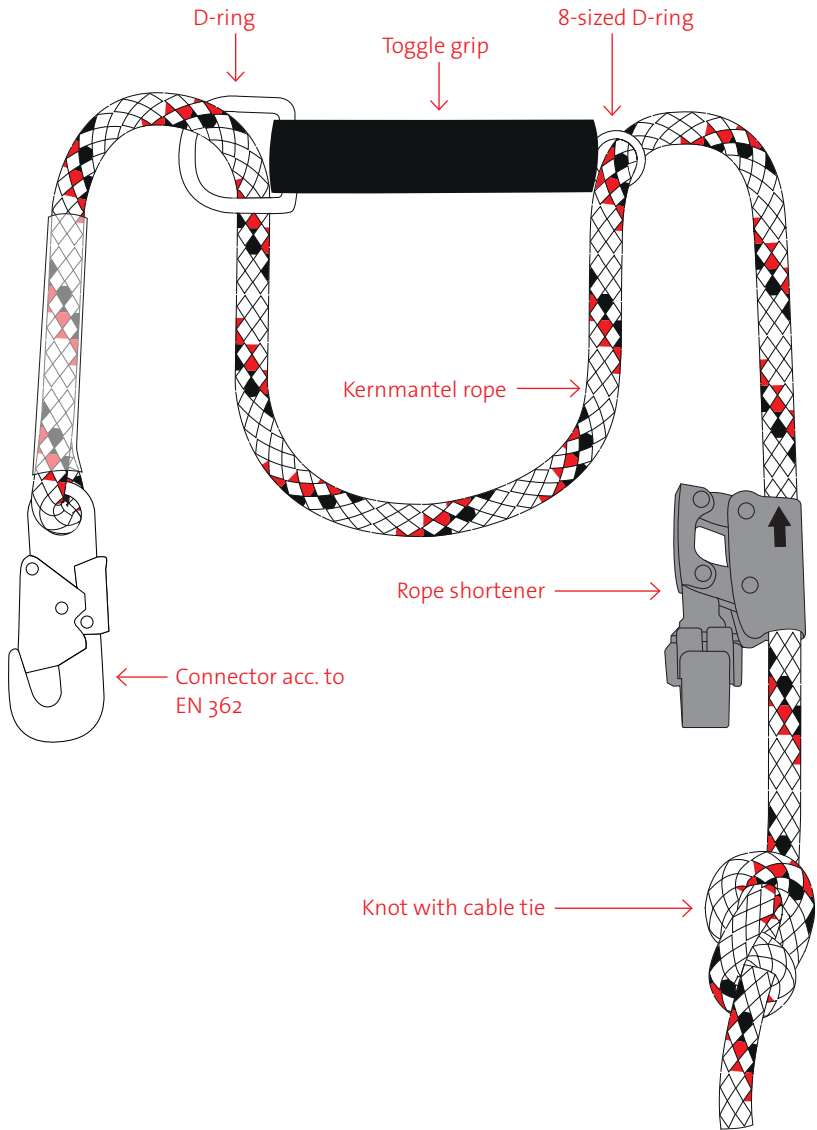
- Smoothly adjustable restraint lanyard with toggle grip for wrapping around a vertical wooden mast or similar
- The BOA restraint lanyard may not be hooked into the climbing protection ring or the front D-ring. Only the two side holding D-rings may be used. To use, the restraint lanyard is attached to the wooden mast using the toggle grip and is also guided when climbing the mast. The BOA restraint lanyard works based on a constriction principle and will clamp on the wooden mast in case of a fall and prevents the user from falling to the ground from the outset.

EQUIPMENT

- Rope shortener
- Safety rope TECSTATIC PRO 12 mm made of polyamide
- Connector acc. to EN 362 made of aluminium or steel
- Toggle grip BOA made of very strong PA webbing with non-slip wear protection

USE

- Securing: Ascending and descending wooden masts or similar, according to the above specification
- Holding: Positioned work from these wooden masts



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.

VISUAL INSPECTION

- Check that the rope protection is complete.
- Are all components complete?
- All seams are undamaged. There are no visible signs of damage to the textile components nor can faults be felt with the hands.
- Fittings, large D-ring and 8-sized ring, connector acc. to EN 362 and the rope shortener show no obvious signs of damage and are not bent.
- Wear protection BOA undamaged, and the seam patterns below are undamaged.
- The diameter of the wooden mast must be matched to the suitable BOA restraint lanyard according to the table.
- Rope end connection (knot) intact.


FUNCTION TEST

- Is the fastener of the connector acc. to EN 362 functional?
- Check clamping function of the rope shortener.
- Is the fastener of the rope shortener functional?

BOA IN USE

A Hook the fastener of the rope shortener into the side D-ring of the full body harness.

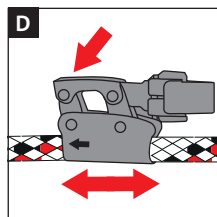
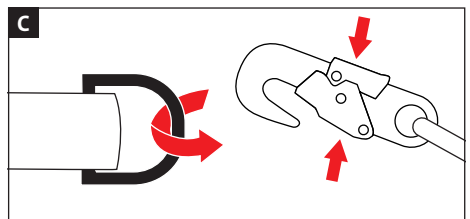
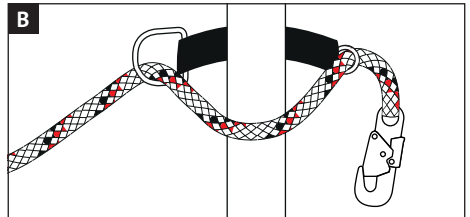
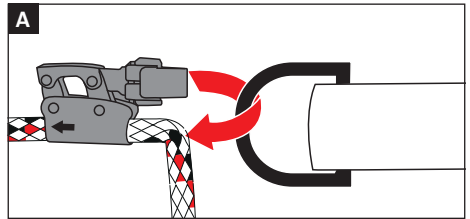
B Feed the toggle grip BOA around the mast from behind and thread the restraint lanyard that is in front of the mast through the steel D-ring.

ATTENTION: 
Ensure that the diameter of the mast is large enough to use the BOA restraint lanyard.

C Clip the connector acc. to EN 362 into the other side D-ring of the fully body harness. Check fastener lock.


D Use the rope shortener to ensure the rope length is taut.

ATTENTION: 
Check the clamping function of the BOA restraint lanyard before ascending.




BOA IN USE

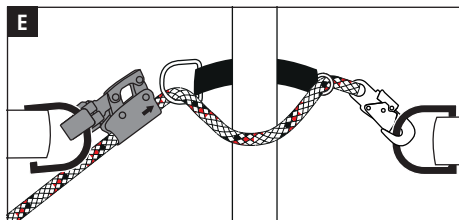
E The BOA restraint lanyard must always be positioned/guided so that the toggle grip is at chest height and the restraint lanyard is as taut as possible.

ATTENTION: 
During setting/use, do not reach into the device. Risk of injury!

ATTENTION: 
Do not reach between the mast and the restraint lanyard. Risk of injury!

ATTENTION: 
Use shoes with crampons. Risk of falling!

ATTENTION: 
The conditions of wet or frozen areas are different than normal!



SAFETY INSTRUCTIONS

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

- ATTENTION! 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.
- The connector for holding harness 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: e-mail hotline: 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.
- The user should be physically fit enough to ensure that safety is not hindered if used normally or in emergency situations.
- Select an anchor point that is as high as possible.
- 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).
- 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 commencing work, an emergency plan (rescue plan) for the respective work situation must be drafted by the responsible person stating how persons in rope equipment can be rescued from the hanging situation safely and reliably and how first aid can be administered. 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. E-mail hotline: info@bornack.de
- The local safety guidelines (e.g. in Germany, the BGR Guidelines 198 and 199 issued by the professional associations) and the accident prevention guidelines for the specific industry (UVV) must be observed.

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 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 BOA:

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 about these parts based on his technical expertise.

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 or the rope log.

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

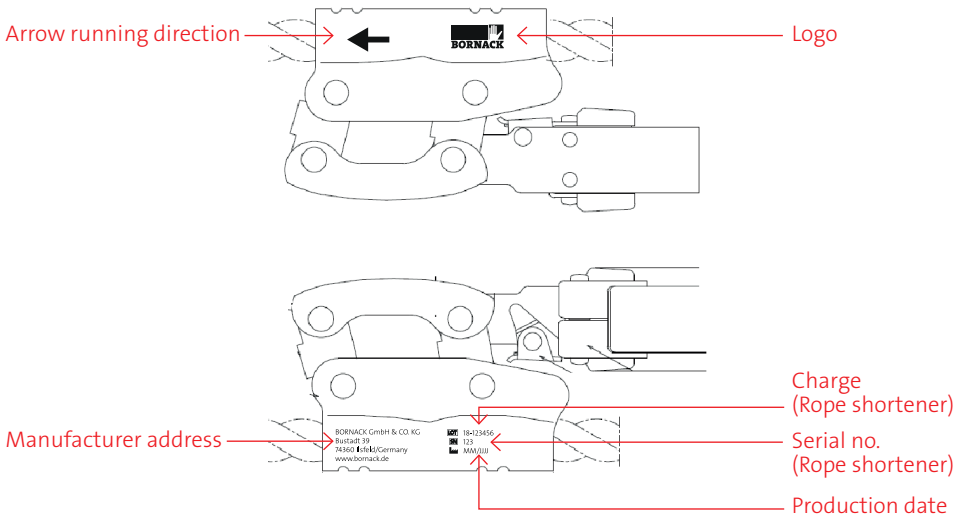
- Protected transport in the device case or device bag.

OTHER

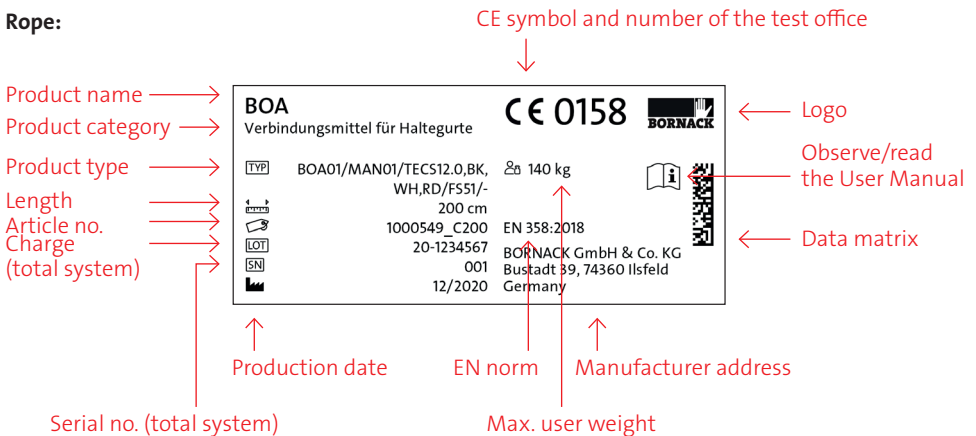
PRODUCT IDENTIFICATION

The following identification is on the product:

Rope shortener:



Rope:



TEST CARD

FOR ANNUAL MONITORING

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

This test card 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: _____ / _____
Rope shortener Total system

Charge: _____ / _____
Rope shortener Total system

Serial no.: _____ / _____
Rope shortener Total system

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 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8
Strap undamaged?								
No chemical soiling?								
Seams undamaged?								
No deformation of metal parts?								
Connector acc. to EN 362 in place and functional?								
Condition of the springs / rivets / axes OK?								
No corrosion damage?								
Smooth snapper function								
Function test: runs/clamps?								
No mech. damage?								
Label legible?								
User Manual available?								
OK								
Blocked								

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

Restraint lanyard
BOA

- 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 358:2018**

- is identical to the PPE that is the object of the **EU type-examination certificate**
No. ZP/B002/21

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

1 February 2021

BORNACK GmbH & Co. KG



Ulrike Bornack
Managing Director



FALLSTOP

Safety equipment for securing and rescuing at heights and depths

SAFEPOINT

Planning and assembly of stationary securing systems

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