

RAILSTOP RS S06

User Manual

RAILSTOP RS S06

Guide type fall arrester with a fixed anchor line

Technical changes reserved

BRIEF DESCRIPTION

INTENDED USE

The fall arrester RAILSTOP RS S06 in combination with a full body harness in compliance with DIN EN 361 with a central fall arrester D-ring at chest height (sternal) and also a multifunctional D-ring at waist height (ventral), only serves to secure one person ascending or descending a ladder.

Users of this equipment must be familiar with handling personal fall protective equipment and the risks of working at heights.

The fall arrester RAILSTOP RS S06 may only be used in combination with the tested rail guide. It is only designed to secure persons and may not be used to transport loads.

This PPE may only be used for vertical applications. The angle of inclination of the ladder may be max. 75° to 103,5°.

- Max. number of users: 1 person per fall arrester
- Max. user weight incl. clothing and equipment 140.0 kg
- Min. user weight incl. clothing and equipment 50.0 kg
- Application temperature -30 °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.

MATCHING CLIMBING SYSTEM COMPONENTS RAILSTOP RS S

- Ladder types:
 - LMB Tr280, LMB Tr273,3
 - LMB Tr280 CC, LMB Tr273,3 CC
- Rail types:
 - LMB arrester rail, C-profile
 - LMB arrester rail, C-profileCC
- Rail attachments at a distance of 1.1 m or ladder attachments at a distance of 1.7 m
- Rail end locks, rigid or releasable, both at top and bottom
- Rail joint connector
- Removal flap
- Fall arrester RAILSTOP RS S06
- Resting platform (hinged) on the ladder
- Roof exit with reinforcement spar

For more information, please refer to the product information for the listed components.

There are separate assembly instructions explaining how to assemble the various ladder types. See pages 17/18 for information about the ladder type identification.

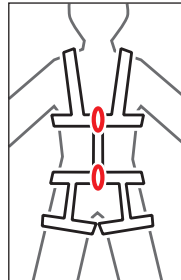
BRIEF DESCRIPTION

EQUIPMENT FALL ARRESTER

- Aluminium casing.
- Separate pawls to prevent falls and tilting:
 - Pawl A "Climb" in stainless steel with polyamide tape fall absorber and aluminium karabiner with Twistlock-Plus fastener and swivel.
 - Pawl B "Horizontal pull" in stainless steel with textile connecting loop and aluminium karabiner with Twistlock-Plus fastener.
- Maintenance-free bearings, rollers and joints.

ACCESSORIES

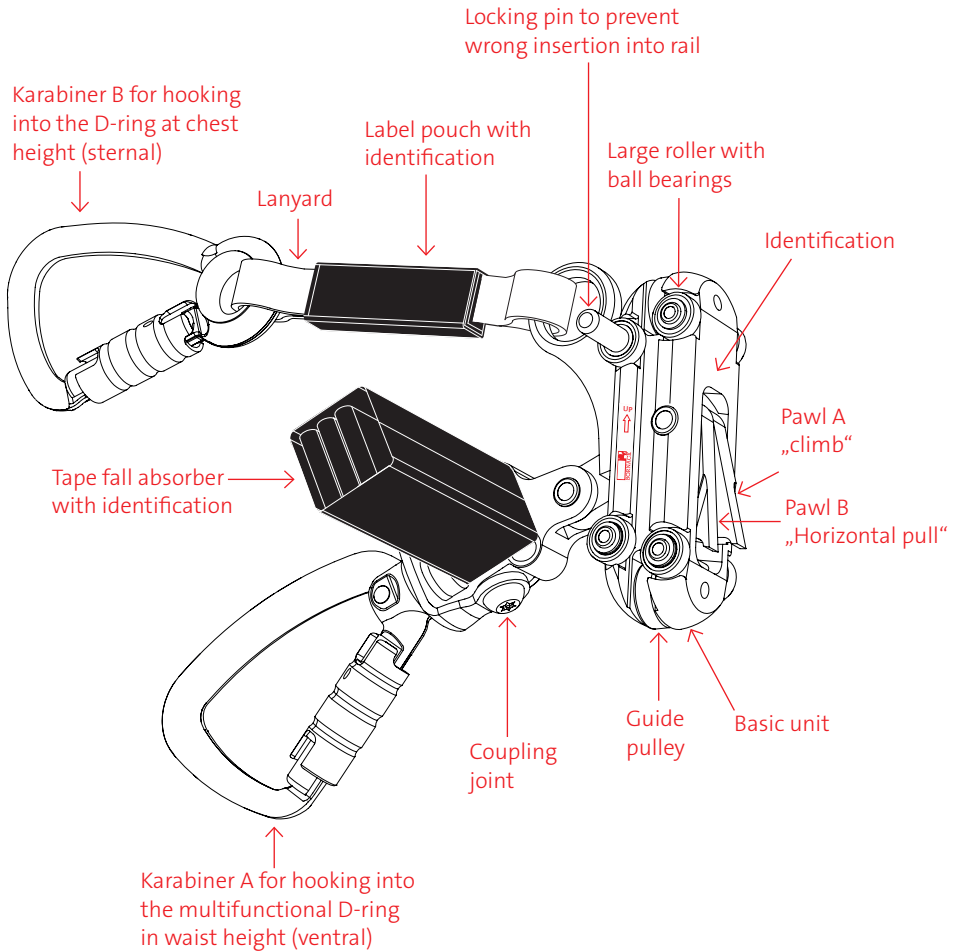
- Full body harness in compliance with EN 361 equipped with sternal D-ring and a ventral D-multifunctional D-ring, e.g. ENERGY full body harness with just one of the two D-rings or full body harness with elastic harnesses are not compatible.



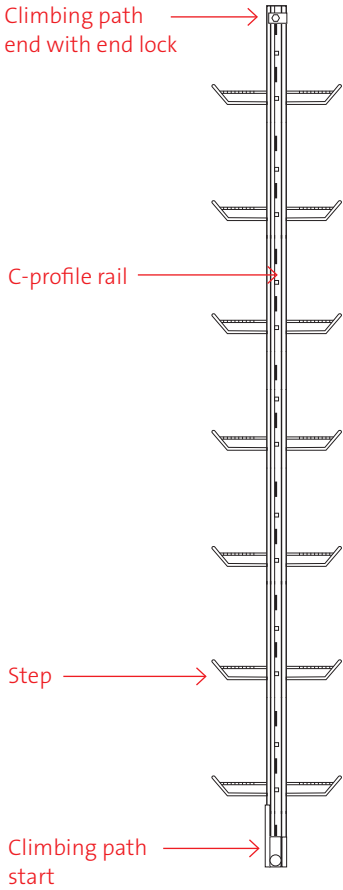
USE

- Use on ladders

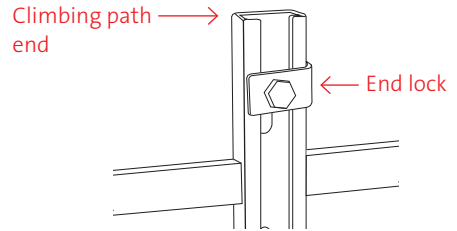
RAILSTOP RS S06



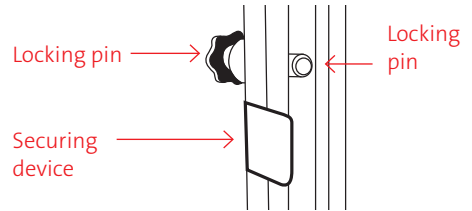
LADDER



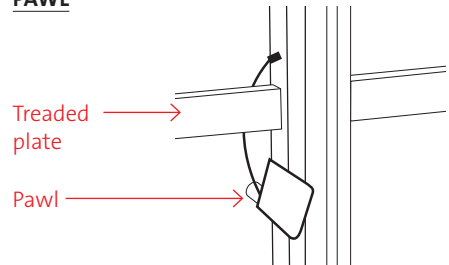
END LOCK



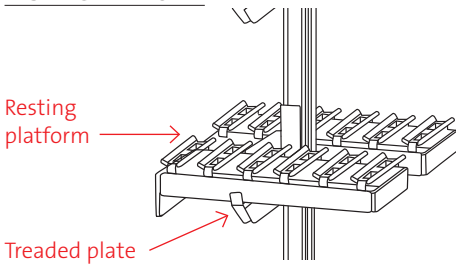
INSERT LOCK/CLIMBING LOCK



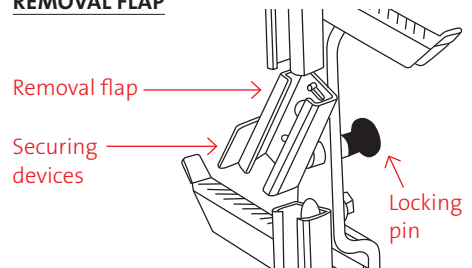
PAWL



RESTING PLATFORM



REMOVAL FLAP



BEFORE USING



Always check every time before using!

- The user must have read and fully understood the user manual before using the device.
- If even the slightest of faults is detected during the inspection, this protective equipment may not be used. In case of damage or malfunctions, the device must be withdrawn and no longer used and returned to the manufacturer or an authorised workshop for inspection. Faulty protective equipment components may only be tested and repaired in a workshop authorised by BORNACK.

VISUAL INSPECTION

- Check to ensure there is no obvious damage to karabiners, joints, rivets, the basic unit, pawls, lanyard and that they are not bent.
- The coupling joint next to the tape fall absorber may not be deformed in any way.
- Check that the rail joints are tight and the distance between the rails is max. 3.0 mm.
- Check that the identification is legible.
- Check to ensure that all rails, ladder attachments, entry/exit securing devices, removal flaps, securing devices and fall arresters are complete and undamaged.
- Check that the end stops at the start and end of the ascent path are in place.
- Check that the last expert inspection is not older than 1 year.

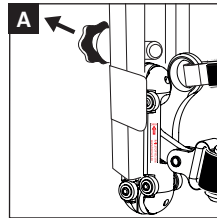
FUNCTION TEST

- The fall arrester runs freely on lug A with a horizontal pull and locks when pulled downwards.
- Check the spring function on pawl and karabiner.
- Are the karabiner fastener and the lock functional?

RAILSTOP RS S06 IN USE

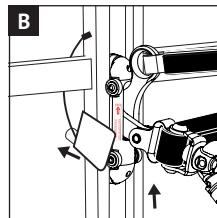
PREPARATION

- A** Insert the fall arrester at the end of the rail or at the removal point in the rail profile. Pull the locking pin of the climbing lock downwards and hold.

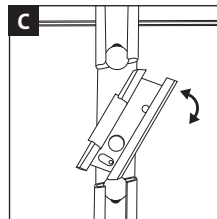


Guide the fall arrester, with the pin pointing to the right, into the C-profile and past the locking pin. The securing device prevents incorrect engagement.

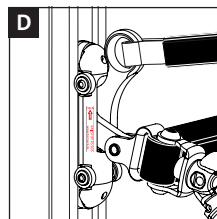
- B** The pawl must swing back automatically into the locked position after passing.




- C** Pull the locking pin backwards and turn the removal flap in a clockwise direction until it reaches the stopper. Insert the fall arrester with the locking pin pointing to the right. The integrated securing device prevents it from being inserted the wrong way round. Close the removal flap again! Swing back to the passing position and allow the locking pin to snap into the lock borehole.



- D** Ensure that the arrow is pointing upwards. When the fall arrester is released, the device locks into the rail automatically. Manually check the function on the rail by lifting and lowering the fall arrester. The device must block when jerked down or released!

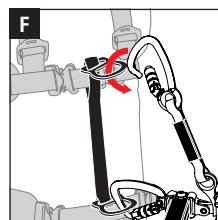
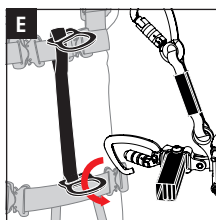



RAILSTOP RS S06 IN USE


Use a fully body harness according to  EN 361 with a sternal D-ring and ventral multifunction D-ring and observe the user manual for the full body harness. Adjust the full body harness to the wearer's personal size so it fits snugly. Loose full body harnesses may not be used.

E Hook attachment point A of the fall arrester into the multifunctional D-ring (waist height).

F Hook the fall arrester into the central attachment D-ring on the front at chest height (karabiner B).



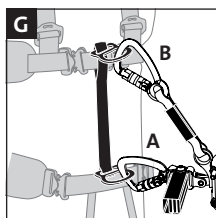
CAUTION! RISK TO LIFE: 
The karabiner of the fall arrester must be hooked directly into the above-mentioned D-rings of the full body harnesses on vertical rail guides and may not be extended!

CAUTION! RISK TO LIFE: 
Only use correctly mounted rail guides. During inspection, pay close attention to the rail joint connectors and the ladder attachments!

CAUTION: 
If the full body harness becomes loose during ascent or descent, a secured person must reset it correctly.

COMBINING

G When combining this product with other parts, there is a risk of mutual impairment of safety; therefore, only use or combine with compatible personal fall protection equipment that bears a CE symbol (PPEgA) and rescue equipment.



RAILSTOP RS S06 IN USE

USING THE FALL ARRESTER

CAUTION:

Before using, ensure there is enough clearance to the ground below the user to prevent a fall onto a protruding obstacle or the ground.



CAUTION:

When starting to ascend near the ground (approx. 1.5 m), it is possible, under unfavourable circumstances, that the legs will hit the ground when the fall is arrested.



When climbing horizontally pull backwards on the karabiner A (ventral multifunctional D-ring) (horizontal pull = back support) and keep unlocked in this way.

- Climb onto or off evenly in front of the middle of the ladder and allow the fall arrester to move with you.
- Do not allow loads to be exerted onto the chest attachment! Keep the upper body upright. If the upper body tilts out of the normal position (due to a fall, unconsciousness etc.), the additional pawl B will block immediately!
- The user can achieve an ergonomic resting position quickly and safely by manually lifting and blocking the fall arrester and assuming a sitting/suspended position in the full body harness. Does not serve workplace positioning!

CAUTION:

The fall arrester must be blocked before the user is suspended or sits in the harness!



CAUTION:

The weight of the user with tools and equipment may not exceed 140 kg!



CAUTION:

The weight of the user without tools and equipment may not undercut 50 kg!



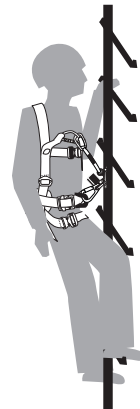
CAUTION:

When using the fall arrester, ensure that the function of the pawls and their attachments are not obstructed. Otherwise, the locking function may be disabled.



- The arrested fall arrester can be released by slightly lifting the karabiner.
- When working on the ascent, always secure with an additional holding rope in compliance with EN 358 (e.g. LORY HOLD) or with a fall arrester rope in compliance with EN 354/EN 355 (e.g. PYTHON). Lateral inclined loads on the fall arrester are not allowed.

Application situation



RAILSTOP RS S06 IN USE

CAUTION:

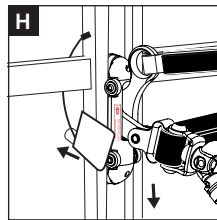


If several persons use the ladder at the same time, maintain a minimum clearance of 3,0 m.

- Only release from the fall arrester if there is no longer a risk of falling. If necessary, secure temporarily with a lanyard.

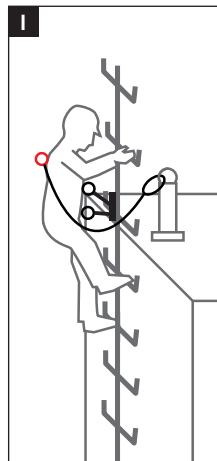
REMOVAL OF THE FALL ARRESTER

H Move the fall arrester close to the pawl but do not set onto the locking pin. If necessary, move the fall arrester back a bit. Press down the bracket of the pawl and hold. The locking pin in the C-profile is released and releases the C-profile. Slide the fall arrester toward the end of the C-profile and remove. Release the bracket; the pawl must automatically swing back to the locking position.



ROOF EXIT WITH REINFORCEMENT SPAR

I Move the fall arrester to just below the climbing lock. At an attachment point in compliance with EN 795, temporarily secure with a lanyard or directly into the fall guard of the roof system. Now open the climbing lock and remove the fall arrester from the rail of the ladder. Descend via the roof exit in reverse order.



SAFETY INSTRUCTIONS

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

- The personal protective equipment 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. May only be checked by the manufacturer or by an expert that has been briefed and certified by the manager in the inspection of the unit. This must be documented in the test card.
- No independent changes or repairs may be carried out.
- The connection between the fall arrester and the D-rings on the full body harness may not be extended or shortened.
- The rope protection is part of the personal protective equipment to prevent falling 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 fall protective equipment (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 the equipment if you are fully fit.
- Health impairments can jeopardise the safety of the user when working at heights or depths.
- When using this PPE, only use a fully body harness according to EN 361 with a sternal D-ring and ventral multifunctional D-ring.
- Before using, ensure there is enough clearance to the ground below the user to prevent a fall onto a protruding obstacle 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 effects (e.g. sharp edges).
- The combination capability and protective effect of the PPE must be checked for each hazard situation (risk assessment).
- 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 plans in specific training courses. E-Mail-Hotline: info@bornack.de
- The local safety guidelines (e.g. in Germany, the DGUV Regulations 112-198 and 112-199 by the professional associations) and the accident prevention guidelines for the specific industry (UVV) must be observed.
- Application temperature -30 °C to +60 °C
- Check compatibility with other PPE parts.

OTHER

APPROVAL

Complies with the EC Directive 89/686/ EEC.

Type testing and production monitoring by:

DEKRA EXAM GmbH
Dinnendahlstr. 9, D-44809 Bochum CE 0158

Quality management system certified to
DIN EN ISO 9001:2015.

Production monitoring by notified office in
accordance with Category III.

REGULAR INSPECTIONS

- This PPE must be inspected by the manufacturer or by an expert that has been briefed and certified by the manager in the inspection of the unit 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

please send your question to our e-mail hotline:
hotline@bornack.de

We will be happy to help!

MAINTENANCE

- Oil mobile parts on karabiners and other devices to ensure they run smoothly. If possible use precision mechanics oil. Bearings are permanently lubricated balls.
- Maintenance may only be carried out by the manufacturer or by an expert that has been briefed and certified by the manager in the inspection of the unit. All instructions in this user manual must be strictly observed.
- Protective equipment that is 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 thoroughly and allow them to dry in the air. No other cleaning agents may be used!
- For information about disinfection, please contact the email hotline: info@bornack.de
- If the personal protective equipment comes into contact with saltwater, keep it wet until it can be rinsed with distilled water.
- Wipe and clean soiled parts with a cloth, brush or clean with lukewarm water and a delicates detergent, rinse with clean water. No other detergents are allowed.
- Use compressed air to blow on the unit.

LIFE SPAN

Recommendations for the use of personal fall protection equipment in industrial environments:

Maximum storage period before using for the first time:

for tape fall absorbers and lanyards up to 3 years.

Maximum usage period after being used for the first time:

for tape fall absorbers and lanyards up to 8 years.

The service life can only be prolonged by means of regular expert inspections and the replacement of age-related worn parts (harness fatigue).

Metal parts are not subject to age-related lifespan deadlines. The expert makes a decision about these parts based on his technical expertise.

For reasons of safety, after intensive use and/or extreme conditions, e.g. sharp edges and chemical influences, the usage period may be reduced. The company owner must ensure this in the risk analysis of the workplace.

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 the manufacturer or by an expert that has been briefed and certified by the manager in the inspection of the unit

Information about the typical applications must be provided.

For more details, please visit the website www.bornack.de.

OTHER

REPARATUR

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

STORAGE

- Dry damp personal protective equipment before storing.
- Store away from light in a dry place.
- Do not store personal protective equipment close to radiators.
- Permanent temperatures of over +50 °C have a negative impact on the strength of the textile material and will reduce the life span.
- Do not allow personal protective equipment to come into contact with aggressive substances (e.g. oils, grease, acids, chemicals).
- Store the personal protective equipment in the device case or device bag.

TRANSPORT

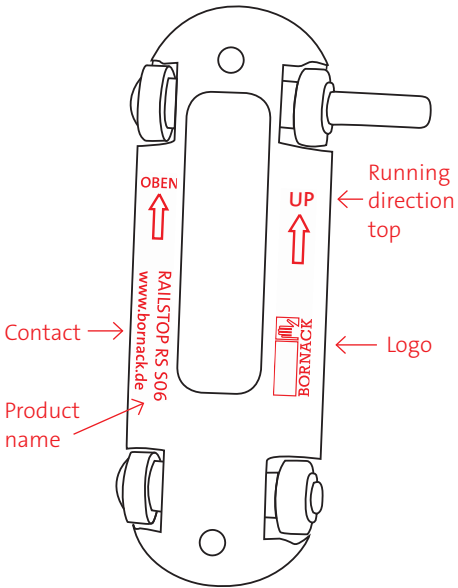
- Transport the personal protective equipment in the device case or device bag.

OTHER

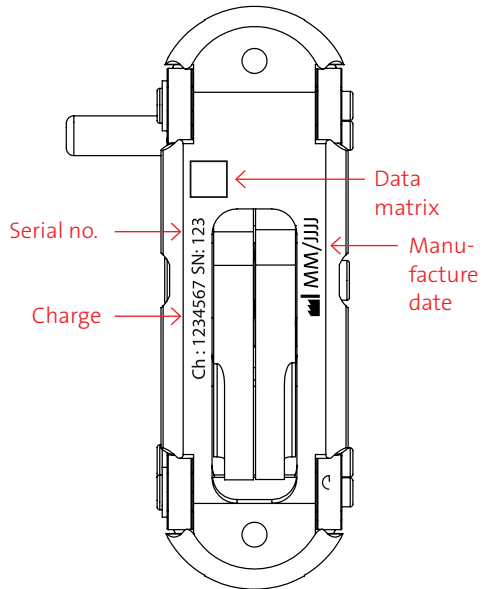
PRODUCT IDENTIFICATION

The identification on this PPE contains the following information:

Identification basic element Front:


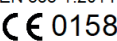




Reverse:





OTHER

Identification label pouch Lanyard:

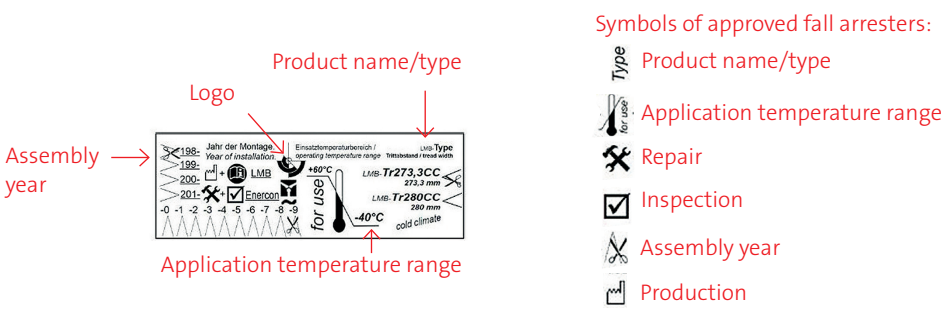
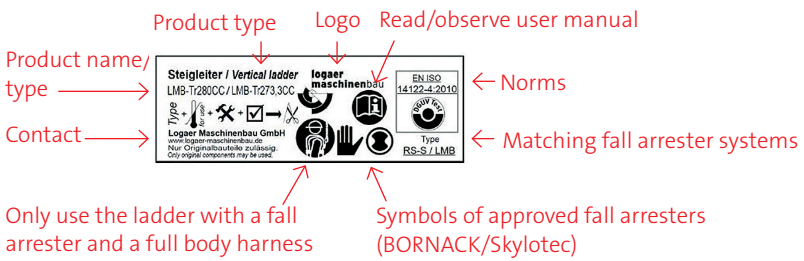
Logo	→		
Product name	→	RAILSTOP	
Product type	→	Fangeinrichtung	
Product type	→	Typ: RS S06	
Item no.	→	Art. Nr.: 1005331_K000	
Useful load	→	max. Pers. 50-140 kg	
matching climbing systems	→	For ladder: Tr 280CC Tr 273,3CC Tr 280 Tr 273,3	For guide rails: LMB C-Profil LMB C-Profil CC
Norm	→	EN 353-1:2014	
CE symbol	→	 0158 	← Read/observe user manual
Component no.	→	Typ: Verbindungsband/RS	
Item no.	→	Art. Nr.: 1005343	
Charge serial no.	→	Charge/SN.: 17-1019138-001 12/2017	← Manufactured on
Manufacturer address	→		← Data matrix
		Bustadt 39 74360 Ilfeld / Germany www.bornack.de	

Identification tape energy absorber:

Logo	→		
Product name	→	RAILSTOP	
Product type	→	Fangeinrichtung	
Component	→	Typ: Bandfalldämpfer	
Item no.	→	Art. Nr.: 1005345	
Charge serial no.	→	Charge/SN.: 17-1019138-001 12/2017	← Manufactured on
Manufacturer address	→		← Data matrix
		Bustadt 39 74360 Ilfeld / Germany www.bornack.de	

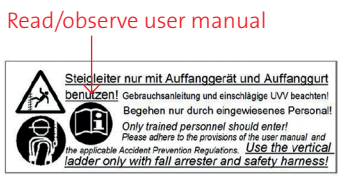
OTHER

Identification LMB ladder:



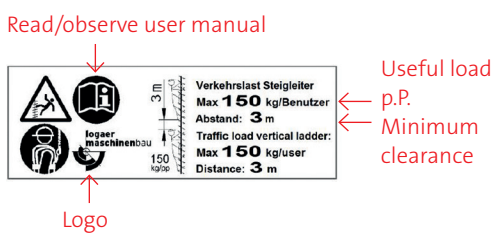
Risk of falling! Ladders with a fall height greater than 3.0 m may not be used without fall arrester equipment →

Only use the ladder with a fall arrester and a full body harness →



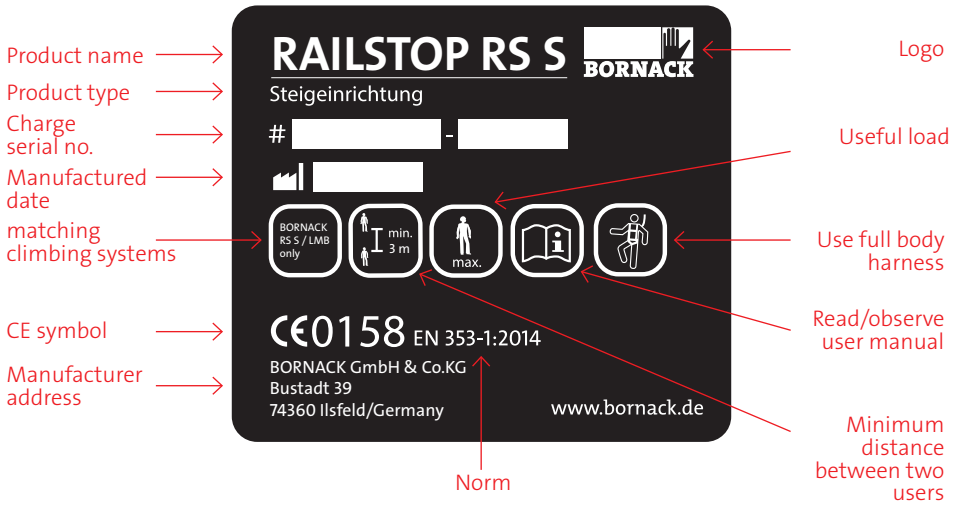
Risk of falling! Ladders with a fall height greater than 3.0 m may not be used without fall arrester equipment →

Only use the ladder with a fall arrester and a full body harness →



OTHER

Identification BORNACK ladder:



EC DECLARATION OF CONFORMITY



CE Declaration of Conformity

The manufacturer or his authorised representative based in the EU

BORNACK GmbH & Co KG
Bustadt 39
D-74360 Ilsfeld/Germany

hereby declares that the following personal protective equipment

Guided type fall arrester with rigid anchor line EN 353-1:2014

Type: RAILSTOP RS S

- RS S fixed anchor line (rail)
- RS S06 fall arrester

satisfies the requirements of the EU Directive 89/686 EEC and, if applicable, the national harmonised standard **EN 353-1:2014** (according to article 8 Paragraph 3 of the personal protective equipment), and the additional requirements of the catalogue of measures CNB/P/11.073

• is identical to the personal protective equipment that is the object of the **CE type-tested certification no.: ZP/B173/16**

• issued by
DEKRA EXAM GmbH
Zertifizierungsstelle CE 0158
Dinnendahlstraße 9
D-44809 Bochum/Germany

• is subject to production monitoring acc. to Art 11, Section A of the EU Directive 89/686 EEC, monitored by the notified test institute
DEKRA Exam GmbH
Dinnendahlstr. 9
D-44809 Bochum/Germany

26.02.2018

BORNACK GmbH & Co. KG


Klaus Bornack
General Manager

TEST CARD

FOR ANNUAL MONITORING

The test card must be completed by an expert that has been briefed and certified by the manager in the inspection of the unit.

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 fall arrester: RAILSTOP RS So6

Manufactured on: _____

Charge serial no.: _____

Purchase date: _____

Date of first use: _____

Life span end at the latest: _____

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

TEST CARD

FOR ANNUAL MONITORING

Please complete: × √

	1. Year	2. Year	3. Year	4. Year	5. Year	6. Year	7. Year	8. Year
Harness undamaged?								
No chem. soiling?								
Seams undamaged?								
No deformation of metal parts?								
Karabiners in place and functional?								
Condition of springs/rivets/ axles OK								
No corrosion damage?								
Smooth-running snapper function?								
Function test: sliding/ clamping?								
Mechanical damage?								
Label legible?								
User manual available?								
Guide rollers functional/ undamaged?								
OK								
Blocked								

TEST CARD

FOR ANNUAL MONITORING

The test card must be completed by an expert that has been briefed and certified by the manager in the inspection of the unit.

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

Rail/ladder type: _____

Manufactured on: _____

Charge serial no.: _____

Purchase date: _____

Date of first use: _____

Life span end at the latest: _____

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



FALLSTOP

Safety equipment for securing and rescuing at heights and depths

SAFEPOINT

Permanently installed safety systems for architects and industry

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

BORNACK Schweiz

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4800 Zofingen, AG
Switzerland

Tel +41 (0) 62 / 886 30 40
info@bornack.ch
www.bornack.ch

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