



FIRE FLEX

Professional protection. Perfect fit.

Protective suit certified according to EN 469,
EN 1149-5, EN 61482-2, EN 343, and EN 14360.

 **rosenbauer**



PPE from

Experts in PPE

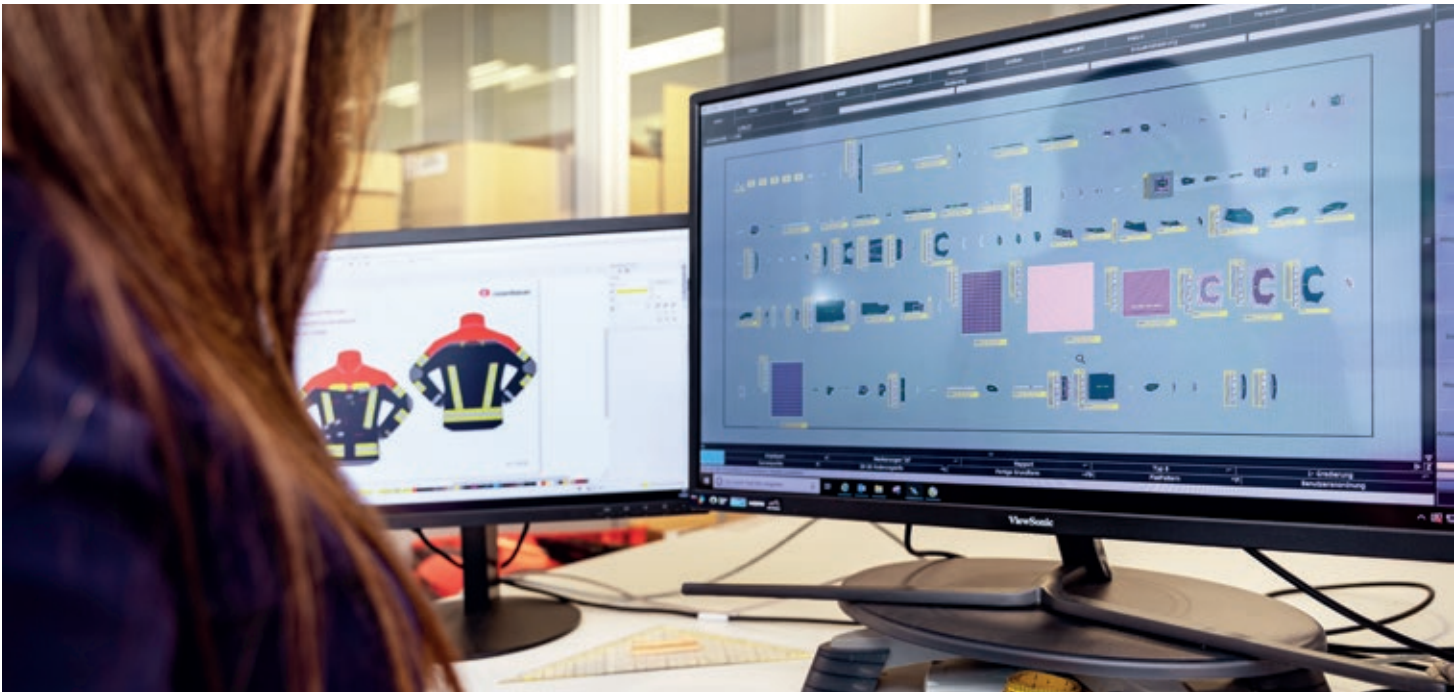
Rosenbauer is known as the market leader for firefighting vehicles. But few know this: Rosenbauer also makes professional clothing, boots, and is a pioneer in the development of firefighting helmets. Unique know-how and an all-encompassing solution portfolio enable modular offerings that ensure safety and comfort in every situation. The flexibility and versatility of a system supplier and the innovative power of a manufacturer who develops and produces the complete PPE in-house - this is what makes Rosenbauer unique.

Rosenbauer

Personal protective equipment.

Development and production from a single source.

Rosenbauer has been a leader in the development, production, and marketing of firefighting technology for decades. Innovation is certainly one of the company's strongest and most consistent core competencies. The in-house development department and the design shop for personal protective equipment are core elements of the continuous technological development.



PPE from head to toe

Rosenbauer delivers perfectly matched equipment from head to toe. Rosenbauer is the only provider on the market that can offer all personal protective equipment for firefighting operations from a single source. All equipment - from helmets and protective suits to gloves and boots - is designed by our own employees. New standards have been set with HEROS helmets. Protective clothing increases operational safety. Protective gloves and firefighter boots complete the personal equipment perfectly.



By professional firefighters for professional firefighters

From concept to market maturity, Rosenbauer receives direct market feedback from within. Many employees work for the fire services and provide hands-on feedback in the development process. All protective equipment is tested before launch under real conditions. What is brought to market as an innovation corresponds 100 % to the requirements and needs of the customers.



Product development and tailoring in-house

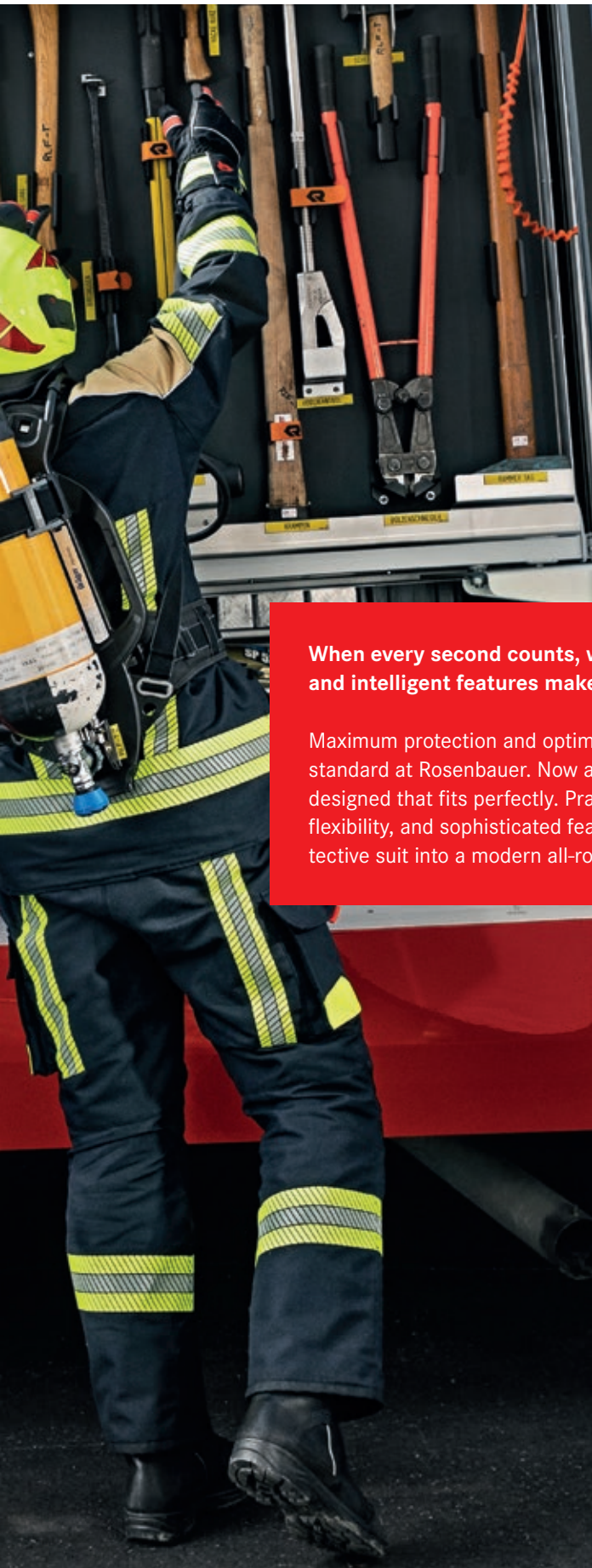
Firefighter clothing is developed in-house at Rosenbauer. Product management, development, design, and pattern tailoring intensively work together on new models and on the continuous improvement of the protective suits. Individual customer requirements or changes to standards can thus be rapidly implemented in new products.

Maximum quality standards The most modern production standards

Numerous certifications confirm that the highest customer requirements are met. A network of audited and tested manufacturing partners in Europe ensures compliance with the highest standards and a sustainable supply chain of protective clothing.







FIRE FLEX.

The protective suit for uncompromising lifesavers.

Only those who can rely 100 % on their material are able to keep a cool head and act correctly in a dangerous situation. The mission is clear: a firefighter's suit must fit like a second skin and offer extensive, armor-like protection.

When every second counts, well thought-out details and intelligent features make all the difference.

Maximum protection and optimum wearing comfort are standard at Rosenbauer. Now a protective suit has been designed that fits perfectly. Practical details add even more flexibility, and sophisticated features turn a high-end protective suit into a modern all-rounder for every situation.

With the FIRE FLEX, you get the most sophisticated protective suit on the market.

Ergonomic - utmost emphasis was placed on the ergonomic cut and the perfect fit in all sizes and lengths.

Flexible - the material, the careful workmanship and the perfect fit create freedom of movement during operations, without resistance and without restriction.

Innovative - sophisticated features developed by experts facilitate intuitive handling on site.

Extremely comfortable protection.

Tailored protection.

Triple, uncompromising protection

When a new protective suit is designed, the focus is primarily placed on the three greatest dangers of extreme use: heat transfer, waterproofing, and resistance to water vapor permeation. In these three areas, the highest level of protection is achieved in all categories.



High-tech from Rosenbauer

Rosenbauer protective suits have always offered maximum impermeability to viruses and bacteria. For Rosenbauer, this feature for the protection of emergency crews is not only a matter of course, but also a significant competitive edge.

Best wearing comfort through Ergocut.

The perfect cut has a name: Ergocut. This precise fine-tuning of the fit offers maximum wearing comfort. Rosenbauer does not regard a comfortable cut as an optional extra. At the end of the day, fit and comfort give emergency crews greater freedom of movement, and are therefore essential safety aspects. If the finely tuned standard sizes are not suitable for the customer, a customized body size can also be manufactured when necessary.

Those who rely on functionality don't have to miss out on a modern and active cut and design. The FIRE FLEX protective suit is a maximum breathable all-rounder made of innovative materials that leaves nothing to be desired.





Certified according to:

- EN 469:2005 + A1:2006
- EN 1149-5:2018 (antistatic test)
- EN 61482-2:2018 (arc fault test)
- EN 343:2003 + A1:2007 (protective clothing for rain)
- EN 14360:2004 (rain test)



EN 469:2005

Xf 2
Xr 2
Y 2
Z 2



IEC 61482-2:2018 APC 2



EN 1149-5:2018



EN 343:2003+A1:2007



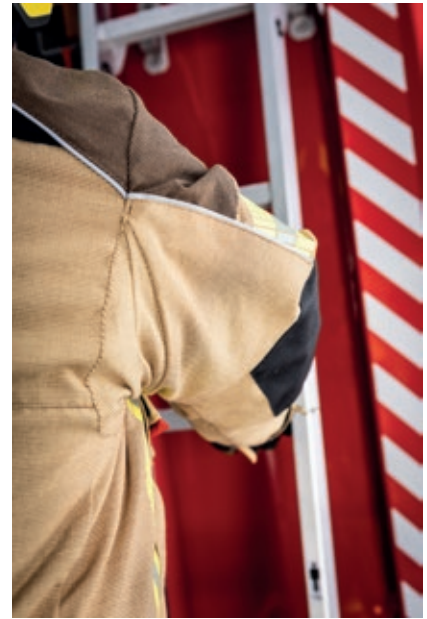
Thermo-Man®



Certified in the highest levels of protection, e.g. EN 14360:2004 (rain test).

Dedicated to comfort.

Committed to safety.



Designed for long-term operations.

An optimal cut is not something that is plain to see. Only long operations reveal whether a cut lives up to its promises. The new FIRE FLEX has been designed to impress: on the job, no matter how long it takes.

Flexible

Combining the best possible protection with optimum wearing comfort is one of the greatest challenges. The FIRE FLEX not only offers a modern, sporty look, but also affords freedom of movement without restrictions in everyday firefighting situations. Improved sleeve cuts and a special shoulder-arm construction guarantee enormous mobility. The collar has also been adapted to the natural head posture and sits optimally without constricting during longer periods of use. Thanks to a new application technique, the reflective stripes offer maximum freedom of movement combined with high breathability.

Innovative

All activities and actions performed on-site by the emergency personnel must be as intuitive as possible. FIRE FLEX supports this with ergonomically designed features. Padded grip pieces on the flaps of the pockets and the zipper make it easier to grasp safely; versatile pockets and fastening devices offer countless possibilities at the scene of the emergency. The segmented strips used for improved visibility have been covered over and integrated into a sophisticated overall concept. These are patched instead of sewn on and are thus not only more flexible, but also more breathable.

Due to the absence of seams, there is no abrasion load on the material. Robust absorption barriers at all critical points prevent moisture from penetrating through to the inside of the protective suit. In particular, a completely new, breathable 3-layer absorption barrier material is used for the sleeve hem and front trim. A smooth-running panic zipper made of special plastic remains fully functional even if the teeth are slightly damaged.



Ergonomic

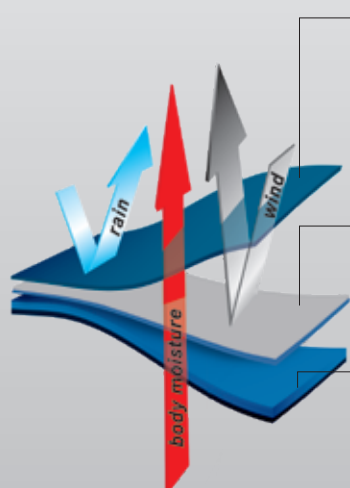
In an emergency, the fit can also be critical. With the FIRE FLEX, we have succeeded in designing an ergonomic protective suit. It must withstand moisture, cold, heat and fire - in terms of safety, the Rosenbauer brand has always set the highest standards. However, the FIRE FLEX manages to guarantee the highest degree of agility thanks to its revolutionary Ergocut. A feeling like a second skin, without compromising safety.



New design elements, segmented reflective stripes, and the two-tone color ensure optimum visibility and a modern look.



Proven 3-layer fabric construction in proven composite



Outer fabric

NOMEX® NXT
Weight:
approx. 195 g/m²
Colors: black-blue/red
and black-blue/gold

X55 with PBI
Weight:
approx. 205 g/m²
Color: gold/brown

Moisture barrier (liner)

PTFE membrane made of melamine resin fiber/aramid carrier. Surface weight:
approx. 105 g/m²

Safety thermal lining

Melamine resin fiber / aramid fleece with quilted cover made of aramid / viscose blended fabric.
Weight: approx. 180 g/m²

High-performance materials.

For high-performance at the scene of the emergency.

There is no question that only the best materials are used for Rosenbauer products. The secret of the FIRE FLEX, however, lies above all in the composition and structure of the material layers as well as in the fabric composition.

FIRE FLEX: resilient, durable, and modern

The materials used guarantee durability and longevity.

In particular, the outer materials are characterized by extremely high mechanical performance properties. When it comes to tensile strength, the X55 outer material with PBI achieves eight times the performance required by the EN 469 standard. In terms of tear propagation resistance, it exceeds the minimum requirements many times over.

All additional equipment, such as gloves, helmet, and boots are perfectly coordinated with the new FIRE FLEX.



PTFE high-performance membrane

The FIRE FLEX has an innovative material structure. The PTFE membrane is characterized by the highest level of breathability, with enormous heat-resistance and water-tightness. Thanks to the sophisticated fabric structure in combination with the PTFE membrane, the moisture is very quickly transported away from the body to the outside and, therefore, there is no heat build-up.

With the specific fabric structure, a water vapor permeation resistance value far below the permissible standard value in the highest performance class is achieved in the Ret-Test (Resistance to Evaporating Heat Transfer).

The PTFE membrane is certified to be virus- and bacteria-proof and provides optimum protection when in contact with injured persons.

Safety thermal lining

The FIRE FLEX uses an insulating yet breathable safety thermal lining that provides optimal protection against external influences, even in extreme conditions. The melamine resin aramid fleece lining with quilted cover made of aramid viscose blended fabric meets the high material requirements.

Different color designs.

You have the choice: NOMEX® NXT or X55 with PBI.



Protective clothing
FIRE FLEX
NOMEX® NXT
color black-blue/gold



Protective clothing
FIRE FLEX
NOMEX® NXT
color black-blue/red



Materials that have been tried and tested thousands of times in a completely new, modern design.

NOMEX® NXT

The FIRE FLEX protective suit made of NOMEX® NXT is an excellent choice both visually and technically. This version is available in two color combinations: black-blue/red and black-blue/gold. It also scores highly with its excellent wash appearance. The protective clothing retains its color and shape even after numerous washes. The special long-term impregnation (up to 40 washes without re-impregnation) and the enormous tear strength of the NXT material also ensures a particularly long service life.



Protective clothing
 FIRE FLEX
 NOMEX® NXT
 color black-blue/gold

X55 with PBI

The protective suit is also available in a two-color version in the X55 with PBI material version.

Gold and brown creates design contrasts and sets accents. The fashionable design gives it a particularly good look. The shoulder area is accentuated in powerful brown. Also in this variant, the protective suit retains its shape and color after many washes.



Protective clothing
 FIRE FLEX
 X55 with PBI
 color gold/brown

Protects with safety.

Saving and rescuing with FIRE FLEX.



With the innovative FIRE FLEX protective jacket, emergency personnel have the opportunity to secure other persons and themselves - in case of emergency, the high-performance garment provides a self-rescue function (optional).

Rescue strap

A robust rescue strap is fitted to the back of the jacket as standard, allowing you to pull an injured firefighter out of the immediate danger zone.

This rescue strap is constituted of a two-layer belt made of heat-resistant Nomex®, which runs across the back underneath the collar, thus evenly distributing the tensile load. For safety reasons, the strap is equipped with an additional Velcro fastener (thus eliminating any risk of the strap sticking out or getting caught). It is equipped with a padded grip piece for better handling.

■ Optional feature

Jacket with integrated rescue system

The FIRE FLEX jacket can be optionally equipped with an internal casing through which the Rosenbauer IRS belt can be threaded. The belt is available as an optional accessory and is certified as per EN 1498 Cl. A and EN 358. The 85 mm wide aramid belt is fitted with a triple-lock HMS aluminum carabiner according to EN 362.





■ Application areas

Restraint system

Particularly critical are situations in which there is an increased risk of falling. In order to make operations on embankments or flat roofs safer, the restraint system restricts the movement range of the emergency crew to a defined radius so that dangerous edges no longer pose a risk. The restraint system holds the emergency crew member securely in position and prevents a fall.

Positioning system

The system can be used as a positioning aid for activities at heights (e.g., on ladders). By tensioning the belt when leaning into the system, a stable working position can be adopted and a fall can be prevented.

Rescue system

In extreme situations, the IRS belt can also be used for self-rescue.

Numerous features.

Ergonomic. Flexible. Innovative.



Extreme protection and comfort are not mutually exclusive. Dozens of sophisticated details make the FIRE FLEX a functional all-rounder and the right companion for the toughest fire service operation.



Comfort suspenders removable thanks to Velcro fasteners

Elastic waistband for perfect adjustment

Fly with zipper and Velcro fastener, covered by a flap

Two angled side pockets

Fleece strip for attaching a name strip

A. SCHWARZ

Pocket flaps with red grip pieces

Ergonomically shaped knees with reinforcements and knee pads

Side pockets with glove holding ring

Breathable, patched reflective stripes

Particularly wear-resistant edging made of flame-retardant, silicone-carbon-coated para-aramid fabric

Absorption barrier on pants cuffs

Trouser features



5 cm wide comfort suspenders, removable thanks to Velcro fasteners



Fly with zipper and Velcro fastener, covered by flap



Elastic waistband for perfect adjustment



15 x 2.5 cm fleece strip for attaching a name strip on the left side pocket flap



Side pockets with glove holding ring



Ergonomically shaped knees with reinforcement and fixed sewn knee pad from non-water-absorbent cellular rubber



Reinforcements on the inside of the trouser closure made of flame-retardant silicone-carbon coated para-aramid fabric



Moisture blocker made of robust flame-retardant PU coated aramid fabric at the trouser's seam.



Inspection opening to check status of membranes on both sides (trousers and jacket)

Jacket features



Rescue strap on the back with grip



Practical, padded grip pieces on all pocket flaps and front cover



Extreme freedom of movement thanks to ergonomic sleeve design



Width adjustment at the sleeve end



Holding straps on both sides for hand-held microphone.



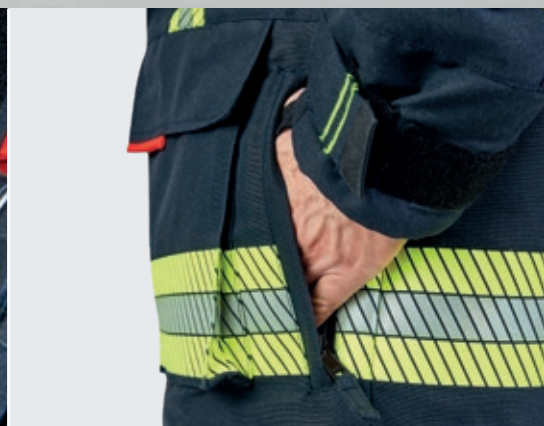
Breathable 3-layer moisture barrier on sleeve hem and front cover



Lamp holder on front cover and radio pockets on both sides



Plastic zipper with quick release function



Angled comfort side pockets

FIRE FLEX

Professional protection. Perfect fit.



FIRE FLEX protective suit

Available sizes: 40-42 to 68-70 each in five lengths: A (156-164 cm), B (164-172), C (172-180), D (180-188) and E (188-196 cm)

Outer fabric Color	NOMEX® NXT black-blue/red	NOMEX® NXT black-blue/gold	NOMEX® NXT black-blue	NOMEX® NXT gold	X55 WITH PBI gold/brown
Jacket	141430	141431	141433	141434	141436
Trousers	141432 (black-blue)			141435	141437 (gold)

Options

140949	Rear lettering permanently printed 1st line: FIRE DEPARTMENT, 2nd line: CITY NAME, font size 4 cm, font length max. 38.5 cm, 2 lines The font color must be indicated!
14059922	Fleece for sections spine label 45 x 10 cm
1410621	Fleece for sections spine label 38 x 8 cm
1410629	Tunnel for FIRE FLEX protective jacket for use in conjunction with the IRS belt
1410628	Pocket under front cover (Napoleon pocket)

Accessories

1405966	Name tag embroidered on Velcro, 15 x 3 cm. Indicate color of tag and embroidery!
140948	Rear lettering on Velcro, two lines, size 10 x 45 cm
141062	Rear lettering on Velcro, two lines, size 8 x 38 cm
141253	Safety belt / rescue strap IRS BELT, available in sizes 40-42 to 68-70 (same as jacket sizes)



140949 Rear lettering



1410628 Napoleon pocket



141253 Safety belt / rescue strap IRS BELT



Fire fighting boots

For fire fighting and rescue operations

Certified according to
EN 15090:2012 F2A HI3 CI AN SRC

Maximum protection. Minimum weight.

 **rosenbauer**

Premium quality.
Optimized fit.







Rosenbauer boots were worn and tested intensively by fire departments and rescue teams.

■ And which boots are right for me?



TWISTER



TWISTER-cross



TORNADO

	TWISTER	TWISTER-cross	TORNADO
Fire fighting inside fire attack	■	■	■
Fire fighting outdoor operations	■	■	■
Technical aid	■	■	■
Forest fires	■	■	■
Forestry applications (chainsaw)			
Rescue applications		■	

The Rosenbauer boot collection.

The right boot for every operation.

The next step. Pushing forward with vision.

Rosenbauer boots stand for a new level of quality. Innovative technology meets modern design. Maximum protection in action, perfect wearing comfort and low weight always take top priority.

From inside fire attack, through forest fires, to rescue operations.

Different operation types pose a variety of requirements for operational units. And for your footwear. The ability to offer the right boot for any requirement, and offering the wearer the best possible protection and support, these are the demands that Rosenbauer makes on its boot line.

Practical deployment first. Then to the customer.

The Rosenbauer boot line was developed in cooperation with fire departments, rescue services, footwear engineers, and designers. The boots were worn and tested intensively for several months during operations by fire departments and rescue teams in various countries. Valuable lessons learned from practical deployment are incorporated unchanged into product development, thus helping to adapt the boot perfectly to the wearer's requirements.



TORNADO with chainsaw protection

■
■
■
■
■
■



TWISTER for firefighters



TWISTER-cross in rescue operations

The highest quality standards

Boots by Rosenbauer. What they stand for.

Maximum protection

Offering firefighters the best possible protection during operations. Guided by this principle, Rosenbauer makes the strictest possible demands on personal protection equipment. The boots from the current collection are EN 15090:2012 F2A HI3 CI AN SRC certified and conform with the highest protection class. With additional protection features, such as ankle protection, Rosenbauer boots mean even better support and safety.

Sporting design

Besides wearing comfort and safety, the boot design also plays an important role. The Rosenbauer boot line stands for a particularly dynamic and sporty look. Silver reflective stripes and red flex zones add colored highlights; Rosenbauer logo elements add brand recognition on top.



Optimized fit

The shape of our feet is as individual as our fingerprints. Rosenbauer has the matching boot for everyone; the models TWISTER, TWISTER-cross and TORNADO allow direct adjustment to suit the individual foot shape. On top of this, there is the 2-width system for wearers with a high instep (width 10 and width 12).

Low weight

Hour-long operations weighed down with heavy equipment, often under the toughest of conditions. This is what daily operations look like for many firefighters. To make the daily grind a little bit easier, Rosenbauer boots mean minimum weight on your legs, thus contributing to the success of a fatigue-free long-term operation.



Highest possible quality in the selection of materials and processing

Only the best materials are used for Rosenbauer boots: hydrophobic leather ensures water-tightness, the lining laminate with foam interior is particularly resilient to wear and the leather upper is protected by special rubber cap in the toe area. The manufacturing process is subject to the highest quality standards.

Certified according to EN 15090:2012 F2A HI3 CI AN SRC

- **EN 15090:2012:** Currently effective version of the European standard for fire fighting safety boots
- **F2A:** All fire fighting and rescue operations where protection against penetration and toe protection are required, including antistatic. No protection against chemical hazards.
- **HI3:** Maximum heat insulation
- **CI:** Maximum cold insulation
- **AN:** Ankle protection
- **SRC:** Non-slip class C (highest protection class)



1 Reflex Elements

The 3M reflective elements are a carefully considered detail. They are positioned on the boot to keep them visible in combination with protective trousers. The premium 3M materials are characterized by their durability and maximum reflectiveness.

2 Flex Zones

Special flex zones increase the wearing comfort when crawling, kneeling and driving. The flex zones are made with a particularly soft leather, backed with foam and located above the heel and in the joint. Some models have additional flex zones in the shin and calf areas.

3 Ankle Protection

Rosenbauer boots are equipped with EN 20345 tested ankle protection as a factory standard. The ankle area of the boot is additionally reinforced on the interior and exterior to this end. This means maximum protection against impact and knocks.



4 The sole construction. A well-thought out concept.

The many different layers fulfill a variety of functions:

- Joint supporting heel insert: for safe support
- Insert sole: replaceable, anatomically shaped, washable
- Insole: made of Texon leather, anti-bacterial and moisture regulating
- Sealing insole: for sealing the SympaTex® membrane
- Steel insert sole: 100 % penetration-proof, protects against injuries caused by thin nails and hard, pointed objects
- Nitrile air-cushion sole: heat and cold insulation, anti-slip and wear-proof, oil- and gas-proof
- Antistatic metal strap, electrically conductive

Equipped with high-tech features

The Rosenbauer boot line can do more.

SympaTex® membrane

The SympaTex® membrane offers breathability and watertightness at the same time. The hydrophilic components of the SympaTex® membrane absorb moisture from the body and allow it to escape to the outside through evaporation. At the same time, the membrane prevents water entering. The high-performance SympaTex® membrane is clearly more flexible and elastic than legacy membranes; it thus remains functional despite extreme load (bending movement, etc.).

The benefits are quite clear:

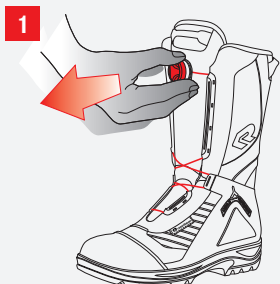
- Optimum breathability
- Watertight to a great extent
- Protection against viruses, bacteria and body fluids
- Resilient against various chemicals
- Dynamic climate control (the more the body sweats, the more moisture is transported to the outside)

**Water-tight, breathable.
Thanks to the SympaTex®
membrane.**



SympaTex® is a registered trademark of SympaTex Technologies GmbH.

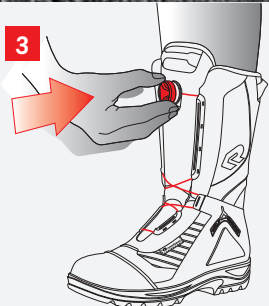
■ It really is that easy!



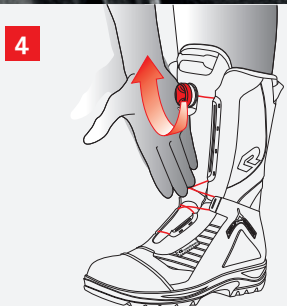
Pull on the Boa® Dial



Pull the leather tongue forward and step into the boot



Push in the Boa® Dial



Turn the Boa® Dial with the edge of your hand until the boot fits perfectly



The components of the Boa® Fit System

▪ Boa® Dial

The handwheel, known as the dial, is the key element in the lacing system. It is made of a highly heat-resistant and robust plastic and used to wind up the coated stainless steel cord. The dial can be easily opened or closed by pulling or pushing.

▪ Coated stainless steel cord

A coated, break-proof, stainless steel cord is hidden behind the black plastic. This robust cord ensures uniform lacing of the boot. The coating gives the cord optimum protection. Boots with the Boa® Fit System are extremely easy to clean as dirt finds it very hard to stick to them.

▪ Rosenbauer Boa® Shield

The Rosenbauer Boa® Shield gives the dial perfect protection against inadvertent opening (e.g., when climbing ladders). (Not needed for the TWISTER-cross.)

▪ Guide rails

The guide rails are also made of highly heat-resistant and robust plastic.

Boa® is a registered trade mark of Boa® Technology Inc.

The Boa® Fit System

Because every second counts in an operation.

Can be put on and taken off in a flash.

As soon as the siren goes off, fire fighters need to reach the scene of the emergency as quickly as possible. Putting on and taking off your personal protection equipment can cost valuable time. And this is precisely where the TWISTER and TWISTER-cross fire fighting boots come into their own with the innovative Boa® Fit System.

Perfect fit.

A break-proof steel cord and a push-and-turn button let you put the boots on and take them off in a flash, and they ensure a perfect fit in just seconds. The lacing system is easy to use and extremely robust.



Easily readjustable at any time

The boot can be easily adapted at any time while wearing to match the shape of the foot. A quick twist of the coiler is all it takes.

*Coated, stainless steel,
break-proof cord*

Features Overview

- **Boot Height D**
Boot height shape D (280 mm size 43)
- **Boot Height C**
Boot height shape C (190 mm size 43)
- **Ankle Protection**
Ankle protection on the inside and outside of the foot
- **Toe Protection**
Impact-resistant steel cap
- **Flex Zone**
Flex zone made of soft, grained leather, backed with foam
- **Anti-Slip**
Anti-slip sole on wet ground, snow and ice
- **Anti-Penetration**
Penetration-proof sole composition
- **Anti-Shock**
Damping in the sole
- **SympaTex® Membrane**
Makes the boot almost completely waterproof, windproof, breathable
- **Reflex Elements**
3M reflective elements for maximum visibility
- **Width²**
2-width system for an optimized fit
- **Boa® Fit System**
Boa® Fit System with coated stainless steel cord and handwheel



Boot Height D
Boot Height C
Ankle Protection
Toe Protection
Flex Zone
Anti-Slip SRC
Anti-Penetration
Anti-Shock

	Boot Height D	Boot Height C	Ankle Protection	Toe Protection	Flex Zone	Anti-Slip	Anti-Penetration	Anti-Shock
TWISTER	■		■	■	■	■	■	■
TWISTER-cross		■	■	■	■	■	■	■
TORNADO	■		■	■	■	■	■	■

■ Factory standards □ Optional

- **Zip System**
2-zone lacing system with fast-action zip
- **Name Tag**
Name tag for individual labeling
- **Chainsaw Protection**
- **F2A Standard**
For all fire fighting and rescue operations, antistatic



SympaTex® membrane



Reflex Elements



Width²



Boa® Fit System



Zip System



Name Tag



Chainsaw Protection



F2A Standard

■	■	■	■	■	■	■
□	■	■	■	■	■	■
■	■	■	■	■	□	■

TWISTER

With the innovative Boa® Fit System.

The TWISTER success story enters the next round. As a fire fighter's boot, it has proved its value thousands of times. With its new features, the TWISTER is now even better suited to the fire fighter's tough daily grind. The fire fighting boot is classified according to EN 15090:2012 F2A HI3 CI AN SRC.

TWISTER – in a class of its own

Thanks to the Boa® Fit System, you can put on the TWISTER in next to no time, and take it off just as quickly. On top of this, the lacing system can be adjusted at any time to support uniform lacing of the boot.

Comfortable lining and the 4 flex zones ensure optimum wearing comfort – also when crawling, kneeling and driving. At just 2.7 kg (per pair, size 42), the TWISTER is also an absolute lightweight.

Materials such as the SympaTex® membrane and the hydrophobic, waterproof leather make the TWISTER essentially waterproof. The multilayer sole construction, interstratified with air cushions, provides excellent resistance against heat and cold. Ankle protection, steel inserts and steel caps protect your feet against injuries. Reflecting elements in the visible area also ensure maximum safety in combination with protective trousers.



Technical specifications

TWISTER

Weight	Approx. 2.7 kg (per pair, size 42)
Width	10 and 12
Boot height	Approx. 280 mm (without sole, size 42)
Available sizes	EU 36 to 52 / UK 3.5 to 16*

*Sizes 36, 50, 51 and 52 / UK 3.5, 14 and 16 are non-standard sizes. Price and lead time on request.



■ Features



Boot Height D



Ankle Protection



Toe Protection



Flex Zone



Anti-Slip



Anti-Penetration



Anti-Shock



SympaTex® membrane



Reflex Elements



Width²



Boa® Fit System



Name Tag



F2A Standard



■ Features



Boot Height C



Ankle Protection



Toe Protection



Flex Zone



Anti-Slip



Anti-Penetration



Anti-Shock



SympaTex® membrane



Reflex Elements



Width²



Boa® Fit System



Name Tag



F2A Standard

TWISTER-cross

The boot for all operations. For firefighters and rescue.

The TWISTER-cross is a short boot with amazing properties. Specially designed for fire department and rescue needs, it is with this shaft height to be Class C certified for all fire fighting and rescue operations in line with EN 15090:2012 F2A HI3 CI AN SRC. The boot also fulfills the requirements of EN 20345:2012 for rescue operations.

Finally one for all operations.

Different boots for fire department and rescue service use are a thing of the past. With the TWISTER-cross, fire fighters and rescue staff now have the right boot for both kinds of operation. Optimum protection and an incomparable wearing experience in all operation situations included.

Unique. Revolutionary. First-class.

The TWISTER-cross short boot features the innovative Boa® Fit System. Pulling on or off in just seconds, and uniform lacing, are thus a matter of course. Ankle protection, steel inserts and steel caps protect your feet against injuries. Reflecting elements in the visible area also ensure maximum safety in combination with protective trousers.

Maximum wearing comfort is ensured by the comfort padding and two flex zones made of soft, grained leather. The SympaTex® membrane and the hydrophobic, waterproof leather make the TWISTER-cross essentially waterproof. The multilayer sole construction, interstratified with air cushions, provides excellent resistance against heat and cold. And the really low weight of just 2.2 kg (per pair, size 42) is amazing.

Although only approx. 190 mm tall, this boot meets the requirements for the highest protection class in fire department operations.



Technical specifications

Weight	Approx. 2.2 kg (per pair, size 42)
Width	10 and 12
Boot height	Approx. 190 mm (without sole, size 42)
Available sizes	EU 36 to 52 / UK 3.5 to 16*

*Sizes 36, 50, 51 and 52 / UK 3.5, 14 and 16 are non-standard sizes. Price and lead time on request.

TORNADO

Strong support meets fast pull-on.

It's not for no reason that the TORNADO has made a name for itself among fire fighting boots. The combination of slip-resistant laced boot with fast pull-on, has proven it is an excellent solution.

More protection, more safety

Like all Rosenbauer boots, the TORNADO has been certified according to EN 15090:2012 F2A HI3 CI AN SRC, which means it is suited perfectly to all fire fighting and rescue operations. In addition, it meets the requirements laid down for the highest protection classes regarding heat insulation, cold insulation and grip. Equipped with ankle protection, four flex zones, 3M reflective elements and SympaTex® membranes, the TORNADO covers every aspect of functionality and comfort.

Individualized fit thanks to two-zone lacing

The TORNADO is no ordinary laced boot. With its special two-zone lacing, the boot can be tightened to different levels around its shaft and front. The lace stopper at ankle height ensures that the different levels of tightness are maintained. No other lacing system enables a boot to fit the individual shape of wearers' feet perfectly like this. Once adjusted to a wearer's personal fitting requirements, the lacing will remain the same and therefore make sure the tightness in the two areas does not change either. The fast-pull-on zipper completes the system, as it allows the boot to be put on and taken off quickly and easily.

Increased comfort through individualized fit.



Technical specifications	TORNADO	TORNADO with chainsaw protection
Weight	Approx. 2.8 kg (per pair, size 42)	Approx. 3 kg (per pair, size 42)
Width	10 and 12	10 and 12
Boot height	Approx. 280 mm (without sole, size 42)	Approx. 280 mm (without sole, size 42)
Available sizes	EU 36 to 52 / UK 3.5 to 16*	EU 36 to 52 / UK 3.5 to 16*

*Sizes 36, 50, 51 and 52 / UK 3.5, 14 and 16 are non-standard sizes. Price and lead time on request.



Features



Boot Height D



Ankle Protection



Toe Protection



Anti-Slip



Anti-Penetration



Anti-Shock



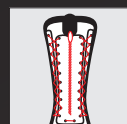
SympaTex® Membrane



Reflex Elements



Width²



Zipp-System



Name Tag



Chainsaw Protection



F2A Standard

TORNADO with chainsaw protection

- With additional layers of KEVLAR® between the upper leather and the SympaTex® membrane
- Complies with EN 381 Part 3 Protective clothing for users of hand held chainsaws class 2

Fire fighting boots

For fire fighting and rescue operations



Ordering data TWISTER

144950xx*	TWISTER with SympaTex® membrane
144951xx*	TWISTER with SympaTex® membrane, width 12
14495001	Replacement coiler for TWISTER (all sizes)
14495002	Replacement lace for TWISTER from size 36 to size 40
14495003	Replacement lace for TWISTER from size 41 to size 52

Ordering data TWISTER-cross

144960xx*	TWISTER-cross with SympaTex® membrane
144961xx*	TWISTER-cross with SympaTex® membrane, width 12
14495001	Replacement coiler for TWISTER-cross (all sizes)
14496001	Replacement lace for TWISTER-cross from size 36 to size 40
14496002	Replacement lace for TWISTER-cross from size 41 to size 52

Ordering data TORNADO

144970	TORNADO with SympaTex® membrane
144971	TORNADO with SympaTex® membrane, width 12
144976xx*	TORNADO with chainsaw protection, with SympaTex® membrane
144977xx*	TORNADO with chainsaw protection, with SympaTex® membrane, width 12
14497001	Replacement zip tongue TORNADO, TORNADO CP size 36 to size 40
14497002	Replacement zip tongue TORNADO, TORNADO CP size 41 to size 45
14497003	Replacement zip tongue TORNADO, TORNADO CP size 46 to size 52
14497004	Replacement bootlaces

*Instead of "xx" state the size in the article number, e.g., 14497643 TORNADO CP, size 43

Spare parts for fire fighting boots

143760	Replacement insole for fire fighting boot size 36 to size 52. Needled non-woven fabric. Excellent perspiration wicking and moisture regulation. Anatomically shaped footbed. Washable at 30°C.
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Care

143939	SOLITAIRE triple care- and impregnation spray
143936	Solitaire Brillant care cream

Equivalent sizes for Rosenbauer fire fighting boots

EU	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
UK	3	4	5	6	6.5	7	8	9	9.5	10.5	11.5	12	13	13.5	14	14.5	15
USA	4	4.5	5.5	6.5	7	7.5	8.5	9.5	10	11	12	12.5	13.5	14	14.5	15	15.5



BOROS

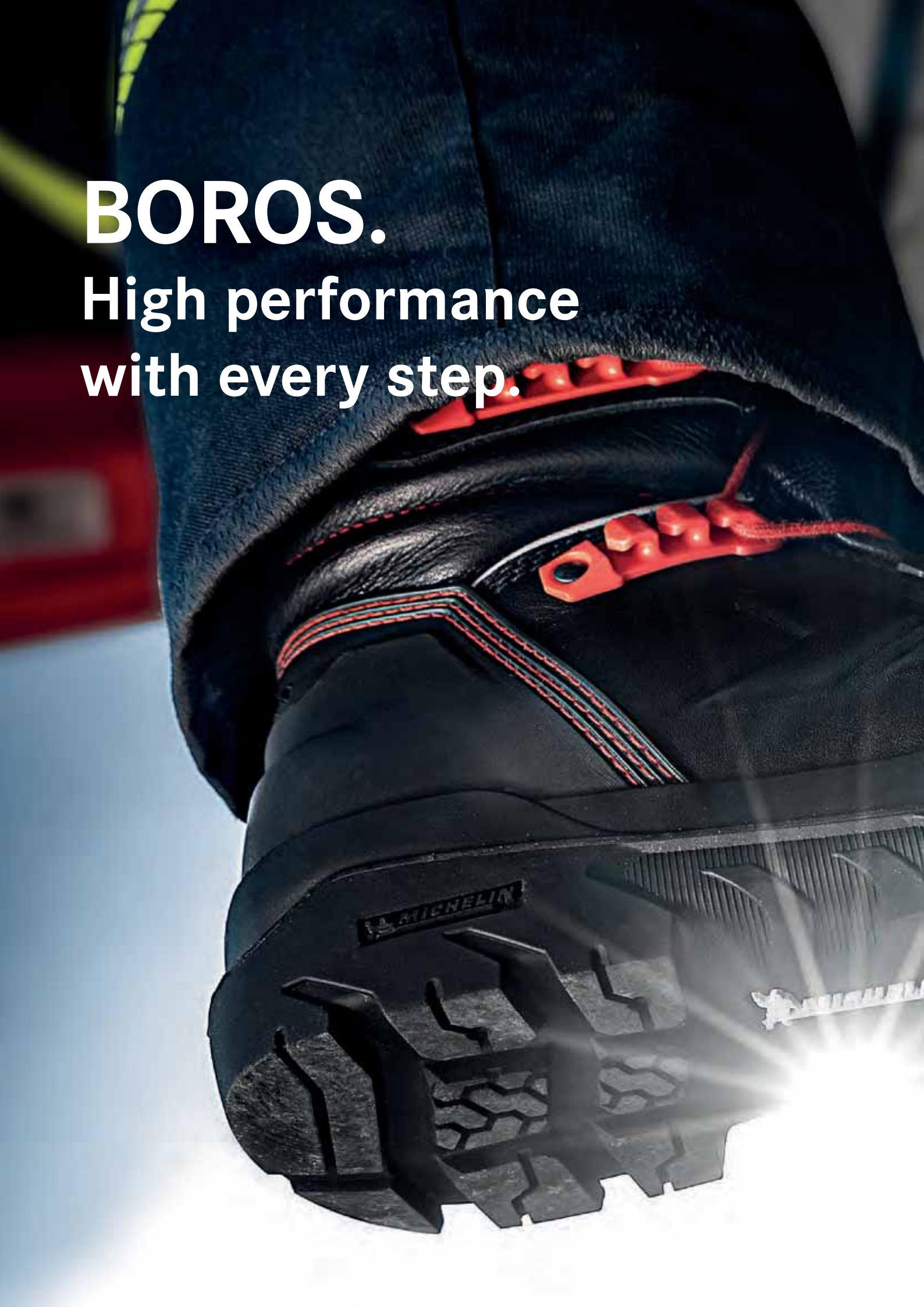
Fire fighting boots certified
according to EN 15090.

Highest comfort. Maximum protection.

 **rosenbauer**

BOROS.

**High performance
with every step.**



A close-up, low-angle shot of a firefighter's boot sole. The sole features a complex, multi-layered tread pattern with large, irregular lugs and a hexagonal grid in the forefoot. The background is a blurred scene of a fire scene with bright light and smoke.

Full PSA competence

Rosenbauer is not only the market-leading manufacturer of firefighting vehicles and extinguishing technology, but also produces personal protective clothing, helmets, and are a pioneer in the development of fire fighting boots. What really sets Rosenbauer apart is having the flexibility of a system provider and the innovative power of a manufacturer who develops and produces a complete range of personal protective equipment.

BOROS.

Boots to make you feel good.

Boots are more than just a piece of equipment for firefighters. They accompany them from the moment they put them on in the fire station changing room until they return after the call-out. Through cold and heat. Through fire and water. Whether they're dealing with ice or hot rubble. They not only protect the wearer's feet, but ensure a sure-footed response and protect the firefighter's entire body for hours at a time.

Specially developed for the fire service

With their new BOROS boot line, the Rosenbauer developers have paid particular attention to making the boots feel as if they are one with the wearer. They aim to not only be stable, robust and optimally protect the feet of firefighters as they go about their tough, everyday life, but to also be as light as possible, as comfortable as possible and as practical as possible. The answer to all these demands is the BOROS B1 pull-on boot and the BOROS B4 with the Rosenbauer quick release fastener.

By using the most modern materials, specially developed technologies and, most importantly, by completely focusing on Rosenbauer's clientèle – including fire brigades all over the world – Rosenbauer was able to achieve this goal. Everyone can now enjoy wearing them, safe in the knowledge that they are perfectly equipped.

All BOROS models are certified according to the European standard (EN15090 F2A) for fire fighting boots and are suitable for outdoor and indoor use.

Our name is our bond: Rosenbauer

For over 150 years, Rosenbauer led the way as a pioneer and a partner for emergency services. We are unique in our ability to deliver effective solutions for every single decisive moment in fire and disaster control.

From preventative fire safety systems to all types of emergency vehicles, from digital applications to personal and technical equipment. As a system provider, Rosenbauer handles all these fields with competence and experience. For Rosenbauer, perfection means preserving our legacy as a driver of progress. That's why we continue to set new standards with our technological innovations in fire and disaster control. Through in-depth conversations with our clients, we develop exactly the right solutions so that we can be at your side when you need us most. Worldwide. Everything you need to be optimally equipped for that decisive moment.



The Construction.

What makes BOROS boots different?

When it comes to safety and durability, all BOROS models share the same features, delivering uncompromising reliability.

The standard is EN 15090



European standard for firefighting footwear
Type 2: All fire fighting and rescue operations, protection against penetration, toe protection, no protection against chemical hazards

Sustainable production

The main material used is bull hide leather produced in Germany in an environmentally friendly and socially responsible manner.

The insole:

Stabilising insole
for a good grip

Breathable, washable at 30 °C



Integrated cushioning
for protection against impacts

Different thicknesses available
for comfortable width adjustment



▪ **Name label**
for clear identification

▪ **Breathable shaft end**
to ensure the boot feels pleasant inside

▪ **Water- and dirt-repellent premium bull hide leather with reflective surface**
(reduces the heating up in the sun)

▪ **Toe and heel caps made from thermoplastic polyurethane (TPU)** protect against wear and tear

▪ **Optimally dimensioned steel cap** to protect the toes

▪ **Antistatic composite material**
ensures resistance to static electricity

▪ **Integrated steel anti-perforation protection**

▪ **3M reflective strips**
for increased visibility

▪ **Ankle protection**
Special memory foam around the ankle area for maximum protection against impact

▪ **Pull-off aid**
for added comfort when removing the boot

▪ **Michelin outer sole**
for maximum anti-slip protection

Focus on the sole.

Step forward in safety.

To a large extent, the sole of a boot determines how safely you can move around. The key to ensuring good adhesion to the walking surface are the grips on the sole. Only a profiled sole can keep a sufficient grip on uneven ground, whether that be on ice and snow, or rubble and scree. When it comes to firefighting operations, another factor comes into play – the sole of the boot must function in all temperature ranges, from the freezing cold through to environments that are quite literally burning hot.

Collaboration with Michelin for the perfect grip

When it comes to the tires on its PANTHER airport fire engine, Rosenbauer relies on a rubber compound from Michelin, one of the world's most renowned manufacturers. So, Michelin developed a sole exclusively for Rosenbauer, ensuring that BOROS boots grip tightly in all situations, while remaining extraordinarily resistant. Not only are they resistant to mechanical stresses, they are also resistant to oil, petrol and most acids. In addition, the antistatic rubber compound prevents sparking, which offers an added layer of protection when working in potentially explosive areas.

Replaceable soles

The sole of the boot can also be replaced if it becomes damaged through thermal overstress or mechanical wear. This is both sustainable and saves the cost of purchasing a new pair of boots by allowing the components to be separately replaced.

Long service life

In order to ensure a long service life, the heel and toe areas, which are particularly exposed to stress, have been solidly constructed.





1 Thread wear indicator

The integrated indicator shows whether the sole has sufficient tread thickness.

2 High flexibility

The blocks of treads are interrupted by grooves, providing greater flexibility around the ball of the foot. This supports the natural rolling movement of the foot.

3 Special profile

The combination of the siping and a unique tread geometry ensures excellent grip, even on slippery surfaces.

4 Pull-off aid

A stable edge in the heel area makes it easy and comfortable to remove the boot.

Special rubber compound

A rubber compound has been developed especially for firefighting use; it functions reliably in both extreme cold (-40 °C) and extreme heat (300 °C).

Penetration protection

Penetration protection made from steel is integrated into the sole. This provides the wearer with a level of protection from injury caused by items like protruding nails etc.

Excellent cushioning

Rubber strips inside the sole provide very good cushioning, especially in the heel area.

The right climate.

SympaTex® ensures dry feet.

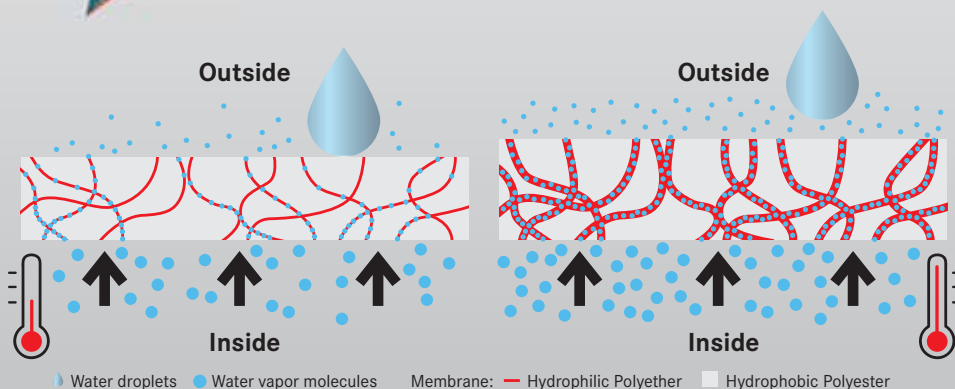
Whether it's scorching heat or freezing cold, steam or icy rain, a firefighter's boots are exposed to the toughest of adverse external conditions. But this is only one side of the story. Inside the boot, a sweaty, stressed foot can quickly create a quasi-tropical climate. To meet this challenge and regulate temperature and humidity, Rosenbauer developed the ideal solution for their boots by using a membrane made from SympaTex®.

Why use SympaTex® in BOROS models?

All climate membranes are selectively permeable with respect to water. This means that they are impermeable to water droplets, but permeable to water vapour, which makes them breathable.

The SympaTex® membrane is permeated with tiny threads that are very sensitive to moisture and swell when damp and thus remove more water vapor away from the body. In brief, the more heat that is generated, the better the climate regulation performance.

This clearly speaks for the use of the BOROS models - in summer and winter. In addition, the membrane is extremely stretchy, fits the shape of the boot perfectly and retains its functional properties in every situation.





Benefits of SympaTex®

- Waterproof and windproof
- Highly breathable, especially during physical activity
- Provides protection against heat and cold
- Protects against viruses and bacteria
- Protects against various chemicals such as fuel or battery acid
- Certified according to Öko-Tex Standard 100

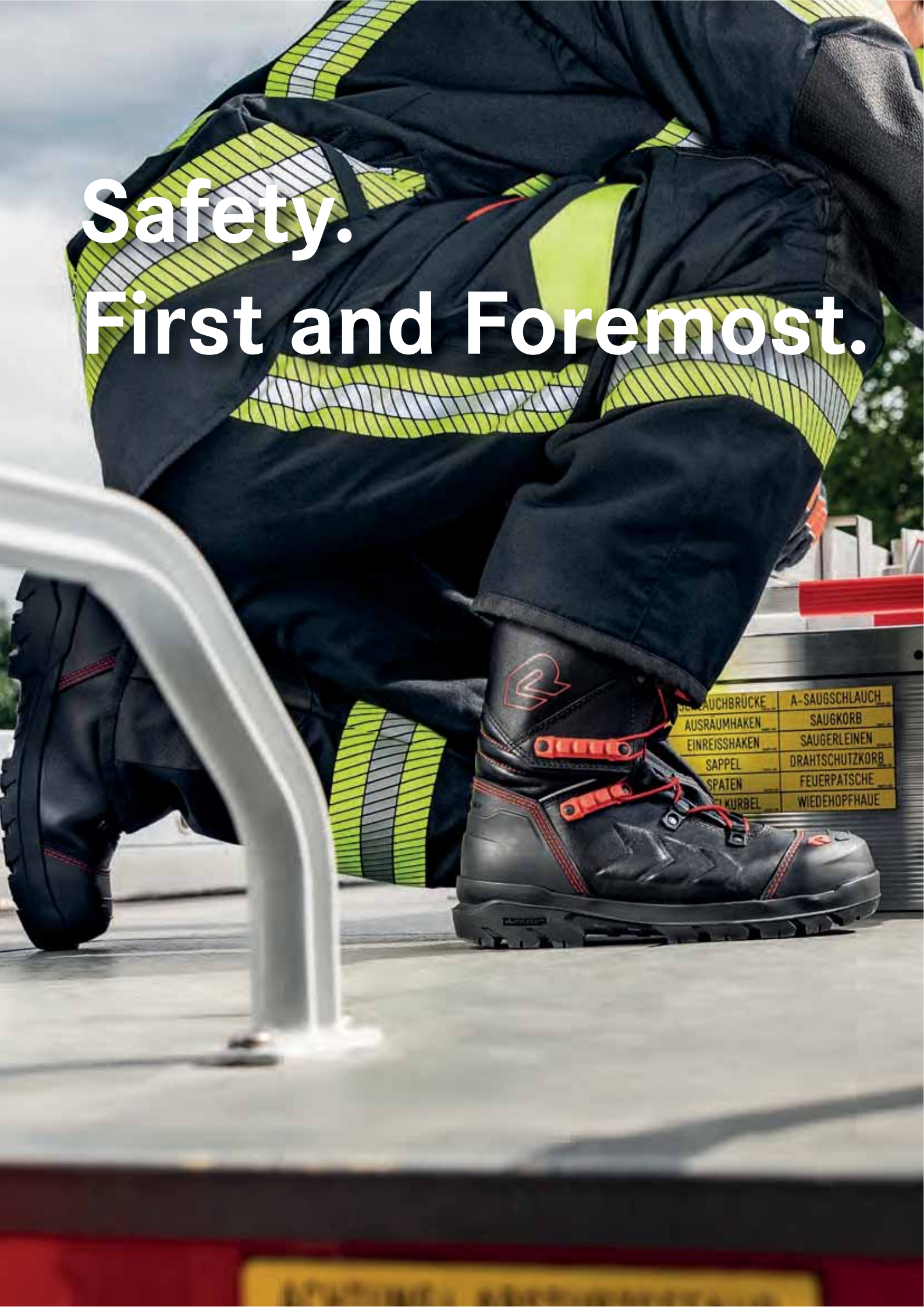
**100 %
RECYCLABLE**

GUARANTEED GREEN
MEMBRANE

Sustainable production

No environmentally harmful substances such as fluorine are used in the production of the SympaTex® membrane. And at the end of its service life, the material can be fully recycled.

**Safety.
First and Foremost.**



SAUGBRÜCKE	A-SAUGSCHLAUCH
AUSRAUMHAKEN	SAUGKORB
EINREISSHAKEN	SAUGERLEINEN
SAPPEL	DRAHTSCHUTZKORB
SPATEN	FEUERPATSCHE
KURBEL	WIEDEHOPFHAUE



BOROS B1.

The pull-on boot from Rosenbauer.

Around the world, the pull-on boot is a valued item in a firefighter's personal protective equipment. Its simplicity and light weight make it a reliable and comfortable, easy-to-wear and simple to care for piece of kit for the emergency services. These advantages place the BOROS B1 in a class of its own, while also providing the full range of equipment benefits that Rosenbauer offers throughout the entire BOROS boot line.



Flex zone and low weight

The flex zone in the instep and ankle area ensures that the BOROS B1 provides very good freedom of movement. The simple pull-on system ensures an extremely low weight boot that requires minimum cleaning effort. The simple and well thought-out design means the BOROS B1 is optimally cost-efficient.

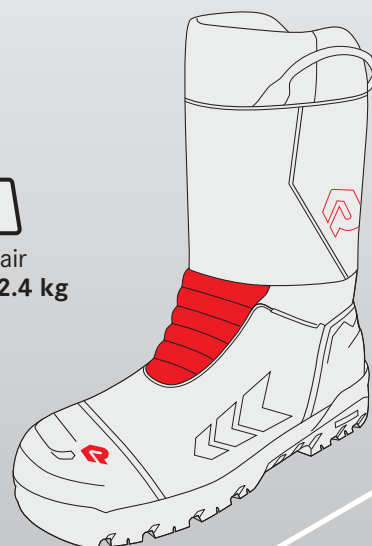
BOROS B1

- Certified according to EN 15090 F2A HI3 CI AN SRC
- With SympaTex® membrane
- Boot height D
- Width 10
- Sizes 36 – 52

Options:

- Without SympaTex® membrane
- Orthopedic insole
- Insole for width 12

kg
per pair
approx. 2.4 kg



Boot height
approx. 290 mm

Size
43



Benefits at a glance:

- Easy to pull on and off
- Lightweight
- Simple long-term care
- Outstanding cost efficiency

BOROS B4.

The boot with the Rosenbauer quick release fastener.



The aim when developing the BOROS B4 was to combine the advantages of all known types of fasteners: simple operation, individual adjustability, as well as the ability to put on and take off the boot quickly while ensuring the boot weighs as little as possible. To achieve this goal, the boot specialists at Rosenbauer had to break new ground when it came to fastener technology. The end result was the revolutionary Rosenbauer quick release fastener.

A revolutionary system

With one pull on the Rosenbauer quick release fastener, the BOROS B4 is put on. In the same way, with just one click the central buckle releases the tension from the lacing system, enabling the boot to be removed in a flash. Individual minor adjustments can also be made in two separate areas.

Full freedom of movement, full protection

Despite the flatness of the sole of the foot, people can actually rotate their bent lower leg 360° thanks to their ankle joint. The BOROS B4 does justice to this natural mobility with its special flex zone in the ankle area. It allows for natural flexing and leaning movements while protecting against too much strain. This means that the emergency services can enjoy the maximum protection and almost forget that they are wearing boots.

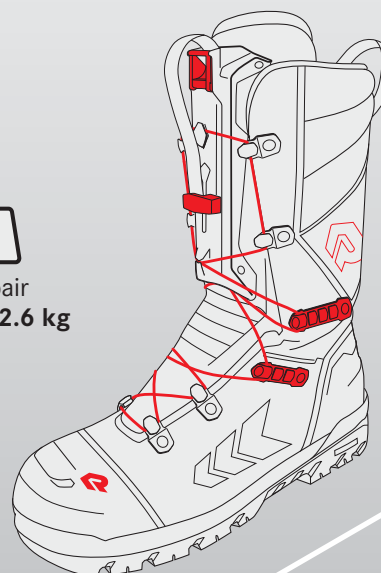
BOROS B4

- Certified according to EN 15090 F2A HI3 CI AN SRC
- With SympaTex® membrane
- Boot height D
- Width 10
- Sizes 36 – 52

Options:

- Orthopedic insole
- Insole for width 12


per pair
approx. 2.6 kg



Boot height
approx. 290 mm

Sizes
43

The unique quick release fastener.

■ Perfect fit in a matter of seconds.

The revolutionary Rosenbauer quick release fastener makes it possible: to pull on and take off the fire fighting boots in seconds. Once adjusted, open and close the BOROS B4 in seconds, even both feet simultaneously.

The intuitive adjustment of the two separate zones provides the incomparable comfort of the BOROS B4.

■ **Spring-loaded, central buckle** for fixing the quick release system

■ **Strap** for tightening the quick release system with clip for fixing

■ **Heat- and flame-resistant ring shoe laces** made of aramid

■ **Upper adjustment hook** for the fit adjustment of zone 2 (shaft)

■ **Lower adjustment hook** for the fit adjustment of zone 1 (foot)

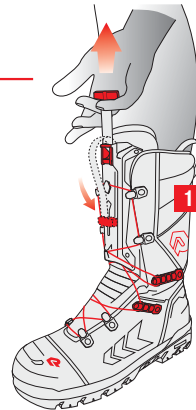




Safe operation

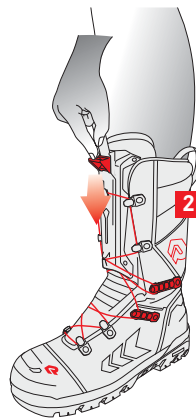
A special open loop area ensures that the boot always opens completely. This guarantees easy and safe operation when closing and opening.

The BOROS B4 closure system is not only lightning fast, but extremely practical as it can also be operated while wearing pull-on over trousers.

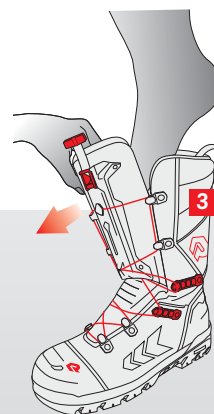


Fast and accurate fitting

1 Once the foot is in the boot, one pull on the strap is enough to tighten the laces. The perfect fit is then automatically maintained by the central buckle.



2 To take the boot off, the entire closure system is opened by pressing the central buckle. It can then be removed effortlessly and quickly.



3 Furthermore, the BOROS B4 can be perfectly adapted to the anatomy of its wearer. The 2-zone lacing allows for individual adjustment of the foot and shaft area.

Flame resistant materials

All plastics used in the closure mechanism and the aramid straps are extremely heat and flame resistant and very mechanically resilient. The Rosenbauer hook-in system means that damaged laces can be easily replaced.



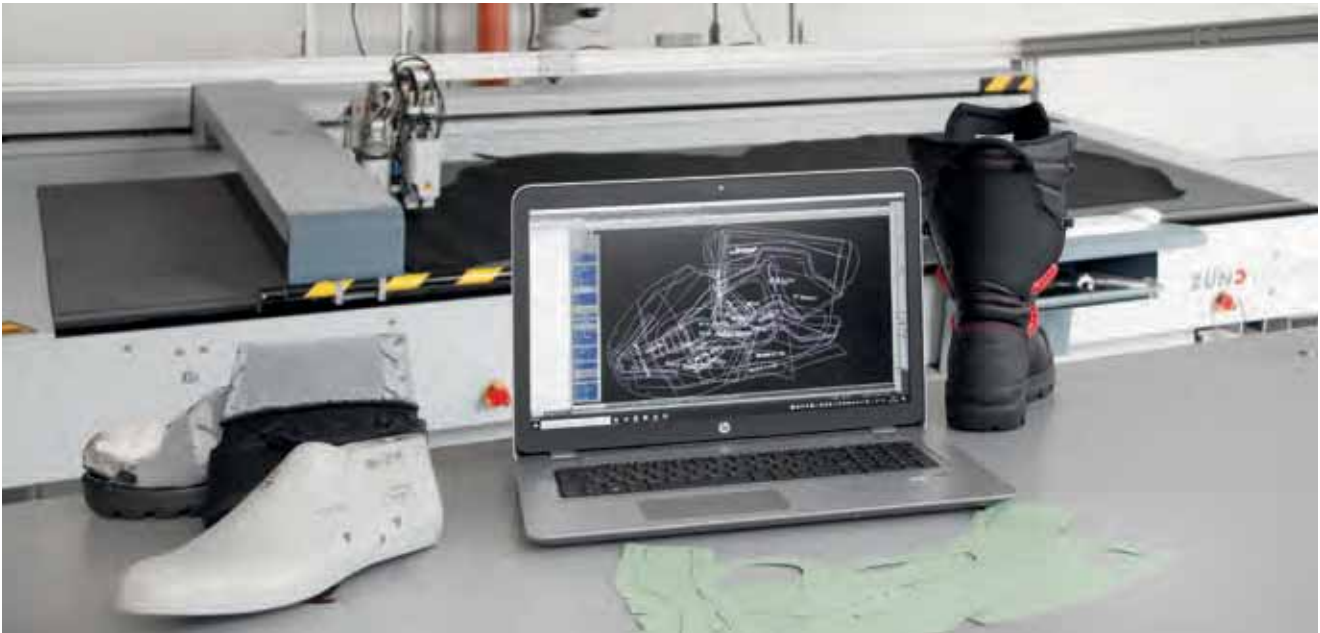
Benefits at a glance:

- Excellent customisation
- Extremely simple to operate
- Very quick to pull on and take off
- Lightweight

For a long service life.

A one-stop shop for development and production.

Rosenbauer has been at the forefront of developing and manufacturing fire fighting technology for decades, and considers innovative strength as one of their greatest and most enduring competencies. The development department for personal protective equipment is at the heart of ongoing technological advances, the test laboratory is the guarantor for durability, and extensive real-life testing guarantees the highest levels of functionality.



PPE from head to toe

Rosenbauer supplies perfectly coordinated equipment from head to toe. Rosenbauer is the only supplier to produce all personal protective equipment for firefighting operations itself, with all the equipment from helmet to boot being designed by their own staff. The new BOROS fire fighting boots perfectly round off the highly innovative personal equipment.



For fire service professionals by fire service professionals

Rosenbauer is in constant contact with fire brigades, both locally and throughout the world. This guarantees that their staff receive practical feedback during the development process. In addition, every piece of protective equipment is tested under real-world conditions before being launched on the market. What enters the market as an innovation, corresponds 100 % to the demands and needs of customers.



Product development and production

Rosenbauer's 20 years of experience in the fire fighting boot sector, the expertise of its technology partners, and the drive to constantly improve, can all be seen in the BOROS boot line. In addition, Rosenbauer is committed to European value creation: the premium leather for the upper material is of German origin the manufacturing takes place in Central Europe.

The harshest tests to ensure the most reliable equipment

Rosenbauer tests its BOROS boots under the toughest conditions. This is not simply a matter of meeting standard specifications, but of manufacturing a high-quality product. They need to fulfil their purpose when being used, as well as providing good service to the wearer for a long time.



BOROS Fire Fighting Boots



BOROS fire fighting boots ordering data

191001xx*	Sizes: 36 – 52	BOROS B1 with SympaTex® membrane and insole for width 10
194001xx*	Sizes: 36 – 52	BOROS B4 with SympaTex® membrane and insole for width 10

Ordering data BOROS accessoires

199002xx*	Sizes: 36 – 52	BOROS insole for width 10
199003xx*	Sizes: 36 – 52	BOROS insole for width 12
199004xx*	Sizes: 37 – 47	BOROS orthopedic insole

*Instead of "xx" insert the size in the item number e.g. 19100143 for BOROS B1, size 43

BOROS care products ordering data

143939	Solitaire 3-way care and impregnation spray, 400 ml
143936	Solitaire Brilliant care cream, 75 ml and sponge applicator

Equivalent sizes for Rosenbauer fire fighting boots

EU	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
UK	3	4	5	6	6.5	7	8	9	9.5	10.5	11.5	12	13	13.5	14	14.5	15
USA	4	4.5	5.5	6.5	7	7.5	8.5	9.5	10	11	12	12.5	13.5	14	14.5	15	15.5



The standard is EN 15090

European standard for firefighting footwear

Type 2: All fire fighting and rescue operations

Protection against penetration, toe protection, no protection against chemical hazards

HI3	Heat insulation according to EN 15090
SRC	Slip resistance according to EN 20345
A	Shoes resistant to static electricity according to EN 20345
P	Penetration resistance by means of a metal insert according to EN 20345
T	Toe protection according to EN 20345
CI	Cold insulation of the sub-base according to EN 20345
AN	Ankle protection according to EN 20345
E	Energy absorption in the heel area according to EN 20345
WR	Waterproof according to EN 20345 (protection is increased for models with membrane)
WRU	Water penetration and water absorption according to EN 20345
HRO	Performance when coming into contact with heat according to EN 20345
FO	Resistance to fuel according to EN 20345



Note on accessories and spare parts!

All tests were carried out using original Rosenbauer accessories. The boots may only be used with these and may not otherwise be altered in any way. This is the only way to ensure the guaranteed and tested properties of the boots.

SCHULTE S.

SAFE GRIP 3

Fire fighting gloves from Rosenbauer.
Certified according to EN 659:2008

Better protection. Improved dexterity.

 **rosenbauer**

SAFE GRIP 3 - fire fighting gloves from

Better protection. Improved dexterity.



The SAFE GRIP 3 combines highest protection properties with a dynamic design. It guarantees protection, improved wearing comfort, and gives the professional firefighter great dexterity.

The SAFE GRIP 3 is certified to EN 659:2008 and meets the highest requirements in fire-fighting operations. It impresses with best-in-class heat and flame resistance and optimum cold insulation. The Gore-Tex® X-TRAFIT membrane is guaranteed to be waterproof and ensures breathability of the glove at the same time.



Precise tactile experience with SAFE GRIP 3.

Safe and cut-resistant.

The SAFE GRIP 3 is the only glove that uses silicone-carbon coated reinforcement material and contains a new admixture of mineral components. This gives the glove even better mechanical protection properties and improved cut resistance. The SAFE GRIP 3 complies with EN 388 Level 4 for cut-resistance.

Getting down to work with a fine sense of touch.

Elastic finger folds at the finger joints ensure freedom of movement and an excellent tactile experience. A particularly light and flexible material was used here, thus ensuring more freedom of movement. The new dark blue model has finger folds in a striking red color; this makes the glove a genuine eye-catcher. The innovative palm reinforcement also ensures a precise tactile experience; this is important, for example, when operating controls and electronic equipment.

Rosenbauer.

Material composition SAFE GRIP 3

1 Outer material

- The back of the glove is comprised of premium aramid combinations that are characterized by their extremely high impact strength, flame and heat resistance, and resilience to chemicals. A para-aramid non-woven material was applied to the rear for extra heat and cut-protection.
- The palm side comprises of silicone-carbon-coated dual woven fabric (doubleface fabric) with a new admixture of mineral components. The NOMEX® and para-aramid coated material used here guarantees excellent comfort for the user, maximum resilience to wear, and an excellent grip on slippery and wet surfaces.

2 Membrane

The Gore-Tex® X-TRAFIT insert membrane makes the glove waterproof and breathable.

3 Lining

The lining is made of a tear- and cut-proof, and flame and heat resistant combination of NOMEX Kevlar® knitted fabric.



Elastic finger joint folds make it easier for the wearer to grip objects.

Reflective elements ensure improved visibility.

The reflective stripes of SAFE GRIP 3 and of the Rosenbauer protective suit FIRE MAX 3 have been geared to each other. Generous 5 cm yellow/silver/yellow reflective stripes at the cuff ensure improved visibility. For the first time, these fire fighting gloves additionally use reflecting silver braid on the back and on the finger folds.

Slip-free and thus easy to pull on and off.

All material layers are firmly interconnected. This means there is no risk of the inner glove working loose or slipping when pulling the glove on or off.



Reflective elements for safe operations.

SAFE GRIP 3

Fire fighting gloves from Rosenbauer.



EN 659:2008 performance classes

Parameters	Results / performance class
Abrasion resistance (EN 388)	4
Cut resistance (EN 388)	4
Tear resistance (EN 388)	4
Puncture resistance (EN 388)	3
Burning behavior (EN 407)	4
Convective heat (EN 367/407)	✓
Radiated heat (EN ISO 6942)	✓
Contact heat (EN 702)	✓
Shrinkage (ISO 17493)	✓
Dexterity (EN 420)	4
Removal of gloves (EN ISO 20344)	✓
Water permeability (EN 20811)	✓
Fluid permeability (EN 20811)	✓
Permeability of liquid chemicals (ISO 6530)	✓

Technical data

SAFE GRIP 3 with cuff

Outer shell colour	Dark blue	Yellow
Length	Approx. 350 mm	
Sizes	6 to 12	
Machine washable	Up to 60 °C	

SAFE GRIP 3 with wristlet

Outer shell colour	Dark blue
Length	Approx. 320 mm
Sizes	6 to 12
Machine washable	Up to 60 °C

Order data SAFE GRIP 3

142750	SAFE GRIP 3 dark blue with cuff
142740	SAFE GRIP 3 dark blue with wristlet
142760	SAFE GRIP 3 yellow with cuff



142750



142760



142740



HEROS-titan


Tougher than any operation.

The new generation of HEROS firefighting helmets.
Lighter. Safer. More comfortable.

 **rosenbauer**



**Tougher than any
operation.**



The new HEROS-titan.

Maximum protection with improved concept.

With the HEROS-titan, Rosenbauer sets a new standard for maximum safety in firefighting operations. The new generation of HEROS firefighting helmets combines maximum protection with ease and perfect fit. With a tradition of innovation, Rosenbauer has developed a helmet, which at approx. 1.3 kg offers maximum comfort. Tougher than any operation, it withstands high mechanical loads and extreme temperatures without problem. The new HEROS-titan from Rosenbauer is made to exist in all operations – and made to protect lives.

Tougher than any operation: HEROS-titan.

The new HEROS-titan from Rosenbauer is one of the safest firefighting helmets in the world. The heat and flame resistance of the helmet shell has been improved once again. Its outer shell, with an innovative, sporty bionic design and made of high-performance polyamide guarantees maximum mechanical protective properties for many years and withstands, thanks to excellent stability, high temperatures. This provides firefighters with maximum security during operations, even in extreme temperatures and dicey situations.

It is safety through experience. It is light-weight through knowledge and technology. It is the realization of innovative ideas. It is state-of-the-art for optimal protection and maximum wearing comfort during operations: The new HEROS firefighting helmet from Rosenbauer.

Developed for the toughest operations in the world.

The new HEROS-titan is a type B/3b full protection helmet for indoor and outdoor firefighting. It fulfills all important standards and certifications for firefighting helmets worldwide: EN 443:2008, EN 16471, EN 16473 and ISO 16073:2011.



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 All features



EN 443:2008



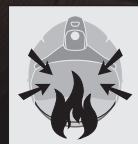
EN 16471
Helmets for wildland
fire fighting



EN 16473
Technical rescue



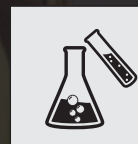
ISO 16073:2011



EN 14458:2018
visors and face
shields



Electrical
isolation



Resistant to
chemicals

The hero who does great things.

Innovative ideas combined in a single helmet.



- **Thermal imaging camera can be integrated**

Unique worldwide: thermal imaging camera to search for people directly on the helmet (optional).

- **Powerful helmet lamp**

Helmet lamp with optimized luminosity and burn time as well as three adjustment levels.

- **Visor: optical class 1**

Visibility-supporting visor of optical class 1 for better visibility and longer wearing comfort (optional eye protector).



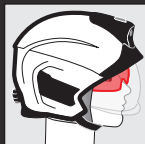
Functions



Full shell



Face visor



Eye protector



Integrated helmet lamp



Easy to adjust on all axes



Mask adapter



Rotary knob



Edge protector



Neck protector



Trapezoidal chin strap with padding



▪ **Optimized damping insert**
Improved protection concept and even more robust in terms of penetration.

▪ **New helmet shell, minimal weight**
Ergonomically shaped helmet shell, thin design made of light material with high stability.

▪ **Optimized center of gravity**
Perfect balance on the head thanks to the ergonomic orientation of the helmet weight on the axis of the head.

▪ **Optional: fully flexible mask adapter**
Fully flexible setting of the mask adapter up and down, forward and backward.

▪ **Improved rotary knob**
Easy to use rotary knob with more grip and better haptics.

▪ **Integrated edge protection**
Protects the helmet at the edges from bumps and scuffs.

With many new details, HEROS-titan is the most innovative state-of-the-art firefighting helmet for every operation. With its design, high wearing comfort, extremely robust components, and sophisticated details, the new generation of Rosenbauer helmets sets new standards in safety, function and comfort.

Fits every time!

Perfect fit and maximum wearing comfort in every situation.



So light you can't even feel it. So efficient you'll never forget it. HEROS-titan always fits just right and remains balanced in every situation.

Light materials – maximum wearing comfort.

Minimum weight with maximum protection – that's what sets the new HEROS-titan firefighting helmet from Rosenbauer apart. At approx. 1.3 kg, it is so light that it maintains a comfortable and secure fit even after a long period. The newly developed "Dynamic Line" edge guide lends it the highest stability.

A helmet shell for all sizes.

An additional highlight of the new HEROS-titan is a wide range of sizes. Thanks to a wide size selection from 49 to 67, each fire fighter can have a perfect helmet. The extremely safe helmet shell is the same for all sizes.

Higher user- and service-friendliness.

Maintain and replace elements of the new HEROS-titan in no time. With only 10 components, handling, washing, or changing the internal fittings of the protective helmet can be done lightning fast. Disassembly of individual components does not require tools and all settings can be adjusted without removing the interior fittings. The complete helmet is also washable, for which there is a special sponge bag.





The only thing easier: the decision to get one. HEROS-titan.

Get the hang of it: HEROS-titan.

This rotary knob has changed the world of firefighting helmets. No other concept enables such a simple and rapid size adjustment of the helmet from the outside as the HEROS helmet rotary mechanism. Rosenbauer goes yet another step further and has developed an improved rotary knob for the HEROS-titan with more grip and better haptics. The gearing mechanism of the rotary knob has also been optimized and enables an expanded adjustment range.



Every person has a unique head.

No problem for the HEROS-titan.



■ A perfect fit in just 5 steps.



1. The wearing height can be adjusted in the internal fittings thanks to the headbands. The wearing height is easiest to adjust when the interior fittings are removed.



2. The headband can be adjusted on both sides to three different sizes.



3. The position of the chin strap padding near the ears is also adjustable.

The best protection is that which is not felt. The HEROS-titan from Rosenbauer ensures a perfect fit with its innovative concept. Adjusting the internal fittings of the new full protection helmet for a perfect fit is possible in just a few steps. The head width can be adjusted to the perfect size using the rotary knob on the outer shell, even with gloves. The headbands, front section, helmet band, chin strap, and leveling pieces of the optional size reduction set enable safe and simple alignment to the individual head shape. Handling directly on the helmet is easier than ever before thanks to the labeling of all adjustment options.

Always in balance.

The optimized center of gravity is also new and unique to the HEROS-titan. Thanks to the ergonomic orientation of the helmet weight to the axis of the head, the head always remains in balance. The center of gravity of the HEROS-titan as well as the distance of the visor are quick and easy to adjust. And through the simple controllability of the internal fittings, the HEROS-titan achieves the perfect balance with every movement.



Easy to adjust
on all axes.



4. The wearing comfort can now be adjusted at any time using the external rotary knob - very easily, even when wearing firefighting gloves.



5. Optionally, the helmet can be optimally aligned to the body's center of gravity by pressing the helmet shell away from or closer to the interior fittings.

HEROS-titan

Tougher than any operation.



HEROS-titan order data

157300	HEROS-titan luminous
157301	HEROS-titan high-visibility red
157312	HEROS-titan high-visibility yellow
157304	HEROS-titan blue
157305	HEROS-titan black
157306	HEROS-titan white
157307	HEROS-titan silver
157308	HEROS-titan red
157309	HEROS-titan yellow
157310	HEROS-titan white with black crest
157311	HEROS-titan chrome



157300



157301



157312



157304



157305



157306

Helmet strips and lettering

157364	Helmet strips, color: red
157365	Helmet strips, color: silver
157366	Helmet strips, color: yellow
157367	Helmet strips, color: blue
157394	Lettering, color: red
157395	Lettering, color: silver
157396	Lettering, color: yellow/gold
157397	Lettering, color: blue



157307



157308



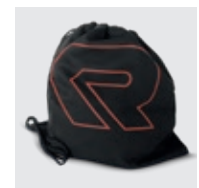
157309



157310



157311



15684301

Visors

15735101	Face shield, gold plated, mounted onto the helmet
157351	Face shield, gold plated, as spare part
15735001	Face shield, clear, mounted onto the helmet
157350	Face shield, clear, as spare part
157354	Eye protector, clear, mounted onto the helmet
15735402	Eye protector, clear, as spare part
15735401	Eye protector, tinted, mounted onto the helmet
15735403	Eye protector, tinted, as spare part



157349



157364



157365



157366



157367

Accessories

157348	Helmet-mounted thermal imaging camera for HEROS-titan
157349	Integral helmet lamp
15736301	Universal adapter ULTRA LUX for lateral fitting of helmet torches or radios
15733101	Mask adapter
156862	Set of straps (1 pair) for mask fastening
15736801	Complete neck protector ("Holland neck protector")
15737003	Leather headband cover (instead of the textile cover)
157374	NOMEX® protective coating for extreme operations and fire containers
15684301	Carrying and sponge bag



157331



15736301

Communication systems for HEROS-titan on request.