



**ARC & FR-RATED
PROTECTIVE CLOTHING
CATALOGUE**

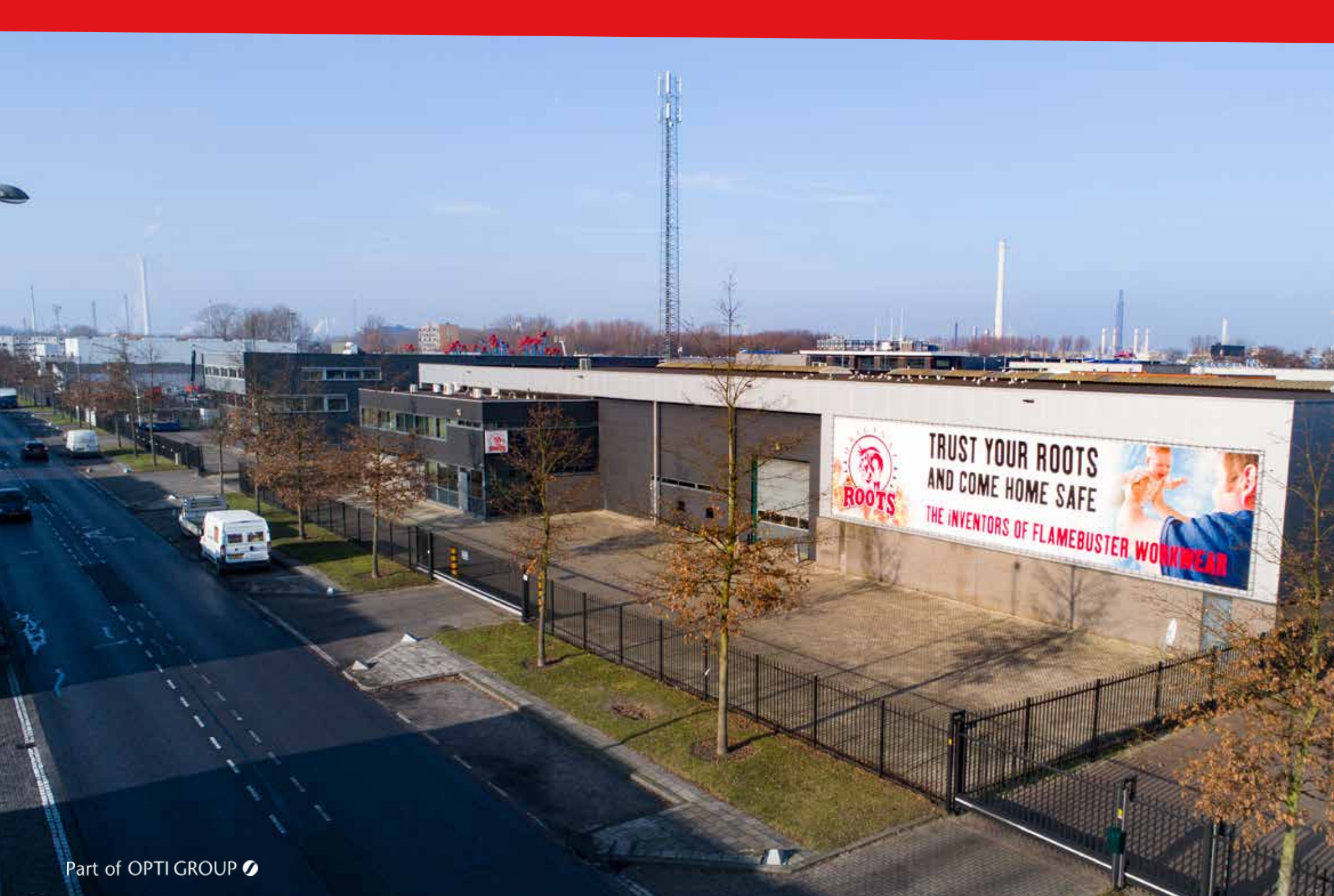




**WHERE OTHER
STOP, ROOTS**



COMPANIES JUST BEGINS



COME HOME SAFE.

Those words have guided us from the very beginning. At ROOTS, we know how much work, testing and engineering sits behind a garment that becomes someone's last line of defence. But for most wearers, a coverall is simply a coverall, something they pull on before getting the job done, assuming it to be safe. It is our responsibility to make sure that when they put on a ROOTS, that assumption is correct.

Over the years, one thing has never changed: every decision we make starts with the same question: does this protect the wearer as well as it possibly can?

If the answer isn't a clear yes, we improve it. We don't take shortcuts, and we don't make concessions.

We go as far as current safety allows, and then we push a little further. We test, we measure, we double-check, right down to the decimals behind the comma, because people rely on our claims being true. We independently retest our fabrics after around 10,000 garments have been produced, effectively repeating almost the entire certification process. Not because regulations demand it, but because we feel it's necessary to stand behind our promise of real protection.

The same applies to durability. We test to a minimum of 50 washes, and now even up to 100 washes, to make sure our garments hold their protective performance in real working conditions, not just in a controlled lab. No drop-off, no surprises, no false sense of security.

No shortcuts. No compromises.

Just the confidence that whoever wears ROOTS can focus on their work, and come home safe.



THEO DE Vlieghe

Managing Director & Inventor of
Roots Original

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RANGE OVERVIEW

ULTRA-LIGHTWEIGHT, INHERENTLY PROTECTIVE, PROVEN TO LAST.



Developed for high-risk electrical environments, the Arcbuster range delivers exceptional arc flash and flame protection at a remarkably low fabric weight of 240 g/m². Built entirely from advanced inherent fibres, every garment achieves outstanding ELIM and ATPV values while maintaining comfort and flexibility. Tested to endure 100 industrial wash cycles, including the hi-vis tape. Arcbuster sets a new standard for long-lasting, lightweight protection.

INHERENT ARC PROTECTION, NO MATTER THE WEATHER.



Designed for electrical and industrial environments where protection from both arc flash and weather is essential, the Arcbuster Waterproof range combines advanced inherent flame-retardant fibres with a durable, waterproof and breathable outer shell. Every garment features sealed seams, waterproof membranes and segmented hi-vis tape for enhanced mobility and comfort. Delivering high arc protection together with certified foul weather performance, this range ensures full protection in cold, wet and unpredictable conditions.

THE QUINTESSENTIAL FR GEAR.



Flamebuster2 continues the legacy of the original ROOTS coverall that set the benchmark offshore. Re-engineered to be even better, it brings together advanced fabric technology, improved ergonomics and refined detailing for greater comfort and durability in the field. Built on two decades of real-world experience and wearer feedback, Flamebuster2 delivers the trusted protection ROOTS is known for, making it the definitive choice for any professional looking for FR protection.

WEATHERPROOF, WORRY-FREE.



Stormbuster is the ROOTS foul weather range, combining certified waterproof protection with the comfort and durability expected from ROOTS. Developed through decades of field experience, every garment features reinforced seams, breathable waterproof fabrics and functional details designed for real-world conditions. Stormbuster keeps wearers protected and productive, whatever the weather brings.



DESIGNED FOR THE EVERYDAY.

ROOTS Softshell Jackets are built for the balance between comfort and protection. The wind- and water-resistant fabric keeps out the elements without adding bulk, while offering full mobility and breathability. Reinforced seams, durable zippers and functional pocketing make them tough enough for daily industrial use, light enough for all-day wear.



PROTECTION STARTS AT THE BASE.

ROOTS FR ARC Underwear forms the essential first layer of a complete arc-rated clothing system. Made from inherently flame-resistant fabric, it delivers consistent next-to-skin protection while remaining lightweight, breathable and exceptionally soft. When combined with ROOTS outer layers, it significantly boosts overall arc protection performance, helping achieve extremely high system ratings. Designed for comfort during long shifts, it regulates body temperature, wicks moisture and moves naturally with the wearer.



FROM THE GROUND UP.

ROOTS Footwear applies the same principles that define our garments: durability, protection and all-day comfort to every pair of boots we make. What began as a side project has evolved into a complete range trusted across rigs, sites and factories. Each model is crafted from premium materials, built to perform straight out of the box, and designed with unmistakable ROOTS detailing.



Got a buzzing question?

Get in contact with our QHSE & CSR department.
Call our hotline: +31(0)10 2955 955
or send us a message at QHSE@roots-original.com

ROOTS PRODUCTION; EXCELLENCE IN QUALITY, EXCELLENCE IN SUSTAINABILITY

ISO 9001
BUREAU VERITAS
Certification



ISO 9001

ISO 9000 is the name of a series of QA standards recognised by over 200 countries around the world and adopted as their national standards for QA. The most important document in the ISO 9000 series is ISO 9001. This is the code against which audits are actually carried out. All the other documents in the ISO 9000 series provide guidelines and explanations for how to apply ISO 9001.

ISO 14001
BUREAU VERITAS
Certification



ISO 14001

This standard is not an environmental management system as such and therefore does not dictate absolute environmental performance requirements, but serves instead as a framework to assist organisations in developing their own environmental management system. ISO 14001 can be integrated with other management functions and assists companies in meeting their environmental and economic goals.

ROOTS conforms with all of the essential environmental standards helping bring valuable guidance into our organisation. ROOTS participates in annual audits, taking both guidance and advice from independent yet renowned auditors.



CODE OF CONDUCT

Production companies associated with ROOTS need to embrace our stringent eight points Code of Conduct. Production facilities are regularly audited by independent notified bodies in order to uphold our Code of Conduct and impose continuous plans for improvement where necessary.



CODE OF LABOUR PRACTICES

Labour standards in accordance with ROOTS Code of Conduct

1. EMPLOYMENT IS FREELY CHOSEN
2. THERE IS NO DISCRIMINATION IN EMPLOYMENT
3. NO EXPLOITATION OF CHILD LABOUR
4. FREEDOM OF ASSOCIATION AND THE RIGHT TO COLLECTIVE BARGAINING
5. PAYMENT OF A LIVING WAGE
6. NO EXCESSIVE WORKING HOURS
7. SAFE AND HEALTHY WORKING CONDITIONS
8. LEGALLY-BINDING EMPLOYMENT RELATIONSHIP

CORPORATE SOCIAL RESPONSIBILITY

SUSTAINABILITY AT ROOTS – CSRD, ESRS AND ECOVADIS

Our approach to sustainability follows the same principles as our approach to protection: design it properly, measure it thoroughly and report it honestly. Safety remains our first boundary, but within that we push for every improvement that does not compromise protection.

We align our reporting with the CSRD and ESRS frameworks, giving structure and transparency to the progress we make. EcoVadis provides an external benchmark, ensuring our claims are supported by independent assessment.

In practice, this means extending garment lifespans, selecting more responsible materials where performance allows, and improving traceability throughout our supply chain. Sustainability is not a separate project; it is an ongoing part of engineering garments that perform, endure and can be accounted for.



ENVIROMETER

Since 14 July 2014 ROOTS has joined the Envirometer and we completed our goal of obtaining certification by the end of 2015. The Envirometer is an online calculator that provides a quick and simple overview on the environmental costs and environmental impact of a company or organisation.

NPS SCORE

Net Promoter Score (NPS); The numbers tell the tale As set out in our ISO 9001 quality management system we annually conduct a customer satisfaction survey in order to create proposals for improvement.

From 2013 onward, we have used the NPS; The Net Promoter Score, which is a simple but effective management tool to measure customer satisfaction and customer loyalty.



WHERE OTHER COMPANIES STOP.. ROOTS JUST BEGINS!

HERE YOU WILL READ AND LEARN ABOUT NINE OF OUR SIGNIFICANT DIFFERENTIATORS, WHERE ROOTS MAKES A DIFFERENCE...

✓ ROOTS OWN FABRIC DEVELOPMENTS

Complete ownership of our niche products

✓ PROTECTION AGAINST UV-RADIATION

All garments are tested and have a UPF-rating of 50+

✓ ELIM & ATPV CALORIFIC RATINGS ON ALL RANGES

All ROOTS ranges offer arc flash protection

✓ ROOTS PRODUCT TRACEABILITY

Every garment is traceable from fabric production

✓ ROOTS TRAINING PROGRAMME

ROOTS thrives on sharing flame retardant knowledge and expertise

✓ ROOTS DEVELOPED WASHING POWDER

A washing powder that deals with the heaviest contaminants

✓ ROOTS DEMANDED INDEPENDENT TESTING

Unique independent fabric testing prior to garment production

✓ INDEPENDENT BURN INJURY PREDICTION ON ALL RANGES

Find out the level of safety our wearers can expect

✓ ROOTS WORKING WITH INDUSTRIAL LAUNDRIES

Helping laundries understand the importance of washing procedures for FR garments

SIGNIFICANT DIFFERENTIATORS WHERE ROOTS MAKES A DIFFERENCE... WHERE ROOTS JUST BEGINS!

1 OWN FABRIC DEVELOPMENT

When ROOTS formed in 2004, we were not comfortable at all with the 'average' Flame Retardant (FR) fabrics on offer in the marketplace. The poor quality, poor performance and poor comfort associated with most fabrics drove us to producing our very own FR fabrics and under our own control. To this day, ROOTS are the only major FR manufacturer that actually controls their own fabric production from start to finish.

ROOTS fabrics are produced by using the very finest ingredients. After all, without a good fabric you don't have a good garment! That is why we use superb cotton quality which offers incomparable wearer comfort, garment strength and product performance. Our FR treatment is of a very low odour, eliminating nuisance smells associated with flame retardant garments, leading to wearer rejection.



2 PRODUCT TRACEABILITY

During our fabric production process, we have implemented a world class quality control system. After every produced batch, all ROOTS fabrics are tested in our laboratory for critical values such as tear strength, tensile strength, flame retardant properties, formaldehyde content and shrinkage. This is then identified by a unique number, which we call Cosort. This number is placed within the seam of every garment that we manufacture. This method protects the unique

Cosort number from flash fire flames along with garment wear and tear. For this very reason, Cosort can be truly viewed as a complete peace of mind for the employer and for the wearer! A development we've done since the end of 2012 is that ROOTS insists on product traceability on the flame retardant reflective tape that we use. Every batch of reflective tape (batch is 100.000 meters) has a unique number that corresponds with a lab report that fully backs up the quality. It is not only the FR properties that are tested, but also a washing test ensuring that the tape remains reflective after 50 washing cycles.



3 INDEPENDENT TESTING

We (ROOTS) have partnered with independent notified bodies, whom quality check our fabrics prior to every garment production. These notified bodies are world-class leaders in fabric inspection, testing and certification, and we are extremely proud to have built a partnerships with such a renowned organisations.

Following independent testing, only then do we allow our fabrics to be released for garment production. Independent testing is carried out on top of our own laboratory testing and is on every colour that comes out of production. Most other manufacturers of FR garments would be satisfied with only the internal laboratory reports available from the weaver; a bit like a student marking their own homework.



TRACEABILITY ON FR REFLECTIVE TAPE

BURN INJURY PREDICTION ON ALL RANGES

HOW SAFE IS YOUR GARMENT?

4 BURN INJURY PREDICTION ON ALL PRODUCT RANGES

Although the relatively 'new' EN standard EN ISO 11612 is already a huge improvement as compared to the 'old' EN531 it is still possible for garment makers to present products to the market place that are potentially unsafe.

Customers ask for garments conforming with EN ISO 11612 for instance. What few people are aware of is that it is already possible to get certification according to this standard after 5 cycles of washing and 1 cycle of drying, whereas the life cycle of the garment could easily reach 50 cycles of laundering. One needs to dig deeper into the technical files behind the certificate to obtain this important information. This is relevant information, because the use of FR chemicals is a significant part of

the cost price for flame retardant fabrics. ROOTS EN ISO 11612 garments are certified against at least 50 cycles of washing and drying.

Some garment makers claim in their neck label, or in the instruction manual a 'Flame Retardancy for the life of the garment'. At ROOTS we feel that this is more than inaccurate, because EN ISO 11612 does not permit these claims. What is the life of the coverall? Is it 30 cycles, or 120 maybe? Claims like this give a false statement of safety; totally inappropriate for a last line of defence safety product.

EN ISO 11612, the standard for limited heat and flame spread, offers garment manufacturers the 'option' to test their garment on a manikin' during a 3 second flash fire. The test gives a skin burn prediction around the body whilst covered by a Flame Retardant garment. At ROOTS we realise that test is executed out on a coverall

without contamination and being properly laundered, but at least it gives a reliable indication on the safety level one can expect from their FR garment.

For that reason, ROOTS takes this optional manikin test extremely seriously. ROOTS test every FR garment design for 4 seconds on a manikin and by doing so, this extra second generates an extra 30% of heat energy. ROOTS garments are tested independently tested and we provide all of our existing and potential customers with the test results.

This graph below shows a burn wound mortality chart. It indicates the relation between burn wounds and age. For example. Age 47 with a burn area of 24% results in a probability of death of 20%.



| % Area Burned | Age | | | | | | | | | | | | | | | | |
|---------------|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 | 60-64 | 65-69 | 70-74 | 75-79 | 80+ |
| 93+ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 88-92 | .9 | .9 | .9 | .9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 83-87 | .9 | .9 | .9 | .9 | .9 | .9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 78-82 | .8 | .8 | .8 | .8 | .9 | .9 | .9 | .9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 73-77 | .7 | .7 | .8 | .8 | .8 | .8 | .9 | .9 | .9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 68-72 | .6 | .6 | .7 | .7 | .7 | .8 | .8 | .8 | .9 | .9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 63-67 | .5 | .5 | .6 | .6 | .6 | .7 | .7 | .8 | .8 | .9 | .9 | 1 | 1 | 1 | 1 | 1 | 1 |
| 58-62 | .4 | .4 | .4 | .5 | .5 | .6 | .6 | .7 | .7 | .8 | .9 | .9 | 1 | 1 | 1 | 1 | 1 |
| 53-57 | .3 | .3 | .3 | .4 | .4 | .5 | .5 | .6 | .7 | .7 | .8 | .9 | 1 | 1 | 1 | 1 | 1 |
| 48-52 | .2 | .2 | .3 | .3 | .3 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | 1 | 1 | 1 | 1 | 1 |
| 43-47 | .2 | .2 | .2 | .2 | .2 | .3 | .3 | .4 | .4 | .5 | .6 | .7 | .8 | 1 | 1 | 1 | 1 |
| 38-42 | .1 | .1 | .1 | .1 | .2 | .2 | .2 | .3 | .3 | .4 | .5 | .6 | .8 | .9 | 1 | 1 | 1 |
| 33-37 | .1 | .1 | .1 | .1 | .1 | .1 | .2 | .2 | .3 | .3 | .4 | .5 | .7 | .8 | .9 | 1 | 1 |
| 28-32 | 0 | 0 | 0 | 0 | .1 | .1 | .1 | .1 | .2 | .2 | .3 | .4 | .6 | .7 | .9 | 1 | 1 |
| 23-27 | 0 | 0 | 0 | 0 | 0 | 0 | .1 | .1 | .1 | .2 | .2 | .3 | .4 | .6 | .7 | .9 | 1 |
| 18-22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | .1 | .1 | .1 | .1 | .2 | .3 | .4 | .6 | .8 | .9 |
| 13-17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | .1 | .1 | .1 | .2 | .3 | .5 | .6 | .7 |
| 8-12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | .1 | .1 | .1 | .2 | .3 | .5 | .5 |
| 3-7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | .1 | .1 | .2 | .3 | .4 | .4 |
| 0-2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | .1 | .1 | .2 | .2 | .2 |

0 = 0% probability of death 1 = 10% probability of death 1 = 100% probability of death

Source: Major hazards monograph Thermal radiation: Physiological and pathological effects

PROFESSIONAL LAUNDRY; CRUCIAL PART IN THE QUALITY OF THE PRODUCT

5 SUPPORT OF INDUSTRIAL LAUNDRIES

ROOTS continuously talks to and supports many laundry companies in order to make sure that ROOTS garments follow correct laundry procedures. We make laundry companies aware of the product's potential purpose as a PPE item so that they too understand why ROOTS garments have to be respected during their laundry cycle. Following our rigorous interview process within the world of laundry, ROOTS is pleased to offer its end users a choice of laundry companies. Laundry companies that have proved that they can wash our garments in line with the garment laundry instructions. Flame retardant garments need to protect people at work and ROOTS fabrics are proven to be incomparable. At the same time, it is as extremely important to be certain all ROOTS garments are laundered to wash label instructions.



The buttons are part of the oven test in the EN ISO 11612 standard where all accessories are placed in an oven at 180°C during 10 minutes (testing of F symbol), after which the integrity of the accessories need to be in operating order.



Melted button after "treatment according to the instruction label" as the laundry told the customer.

SUPPORT TO CUSTOMERS

In a 'normal' shrinkage/damaged garment conflict, it is the customer that end up in between the garment maker and the industrial launderer. This does not happen with ROOTS. Due to our unique product traceability and stringent fabric tests prior to production (see page 13) ROOTS provides evidence to the customer and the laundry that there can never be any doubt as far as the fabric quality is concerned. ROOTS will never release fabric for production if, for example, too much shrinkage is established with the independent testing. The quality of the garment is as good as the quality of the laundry process. Below are two examples where ROOTS was accused of faulty fabric by the industrial laundry company. The laundry stated that the washing instructions were followed (washing at 60°C and tumble drying at a moderate 50°C). This garment was laundered 3 times, shrunk 3 sizes, the reflective tape lost its properties and turned green. As if that wasn't enough, the ROOTS nylon stud button also melted.



The integrity of the reflective tape is secured for 50 cycles of washing and drying at 60°C



Reflective tape that lost all of its glass pearls after only 3 cycles of washing "in accordance with the neck label"; turning it green in colour.

Note that reflective tape loses its properties after 50 cycles of washing and drying at 60°C and that the ROOTS button starts to melt after exposed at a temperature of 240°C for 5 minutes in an oven. One could think that this is a one off..., "hardly ever happening" example. Regrettably this is not the fact...

Industrial laundries recognise that this is an unwanted situation for their customers, taking the appropriate steps to resolve these quality issues.



PFAS AND COMPLIANCE WITH EN 13034

Supporting safer choices in multinorm protective clothing

At Roots, our mission is to provide protective clothing that not only safeguards workers against immediate risks but also considers long-term health, environmental safety, and sustainability. As part of our responsibility under **Regulation (EU) 2016/425 for Category III PPE**, we focus on developing multinorm garments that protect in high-risk environments.

One area receiving increasing attention is the presence of **PFAS (Per- and Polyfluoroalkyl Substances)** in protective clothing. This technical insight explains what PFAS are, why they matter, and how Roots ensures compliance with **EN 13034: Protection against liquid chemicals** while avoiding unnecessary risks to people and the environment.

WHAT ARE PFAS?

PFAS are a group of synthetic chemicals often called “forever chemicals” because they do not naturally break down. They have been widely used for decades in consumer products and textiles because they provide:

- ✓ **Water resistance**
- ✓ **Oil repellency**
- ✓ **Stain protection**

These properties made PFAS extremely popular but also problematic. Their durability in the environment means they accumulate in water, soil, and even in human bodies. Growing evidence links certain PFAS to serious health concerns, including impacts on the immune system, hormonal disruption, and potential cancer risks.



WHY DOES PFAS MATTER FOR PROTECTIVE CLOTHING?

Protective clothing often needs to resist **splashes of liquid chemicals** – exactly what **EN 13034** is designed to test. In the past, many manufacturers relied on PFAS-based finishes to achieve this.

THE CHALLENGE:

- PFAS provide performance but remain in the environment for generations.
- Their use is increasingly restricted by European regulations.
- Customers and workers are now demanding **safer, more sustainable solutions**.

EN 13034 – The standard explained

EN 13034 specifies requirements for garments that protect against small amounts of liquid chemicals (commonly known as **Type 6 protection**). In simple terms:

- **Purpose:** Prevent splashes and light spray of liquid chemicals from soaking through the garment.
- **Testing:** Fabric and seams are tested for penetration and repellency against selected chemicals.
- **Result:** A garment certified under EN 13034 provides limited but essential chemical protection for many industries.

ROOTS' APPROACH

At Roots, we are committed to designing Category III PPE that balances safety, comfort, and environmental responsibility. Our approach includes:

1. **Rigorous testing** – Every Roots garment undergoes independent laboratory testing to confirm both protection and wash durability performance. We prove our claims through evidence, not assumption.
2. **Transparency** – We believe customers deserve clarity. That's why we openly communicate about the materials and technologies we use, enabling informed, confident choices.
3. **Sustainability by design** – Beyond exploring PFAS-free finishes, our sustainability strategy focuses on extending garment lifespan, enabling repair, and promoting high-quality recycling.

IMPORTANT INDUSTRY REALITY

At present, there are **no alternatives available on the market that deliver the same level of protection — or better — than the currently used fluorocarbon C6. They simply do not exist.**

This makes C6 technology the **benchmark for chemical splash protection** under EN 13034. While regulatory and sustainability pressures push the industry towards PFAS-free solutions, worker safety cannot become a casualty of that transition. Roots continues to monitor innovations closely and invests in research to ensure that future solutions will protect both **people and the planet.**

The **European Safety Federation (ESF)**, representing the PPE industry at a European level, recognises the complexity of the PFAS discussion. While the long-term goal is clear — to eliminate PFAS wherever possible due to environmental and

health concerns — the ESF has stressed that:

- **Worker safety must remain the top priority.** Any restrictions on PFAS should not reduce the protective performance of certified PPE.
- **Current alternatives are not yet sufficient.** The ESF acknowledges that there are, as of today, **no proven PFAS-free** solutions that can replace fluorocarbon C6 for garments requiring EN 13034 protection.
- **Dialogue with regulators is essential.** The ESF actively engages with the European Commission to ensure that future legislation balances sustainability objectives with the legal responsibility to protect workers under the PPE Regulation (EU) 2016/425.

ESF AS A STAKEHOLDER IN EU POLICYMAKING

The ESF plays a recognised role as a **key stakeholder** in EU policymaking on PPE. By participating in expert groups, consultations, and standardisation committees, the ESF ensures that the **voice of the PPE industry is heard** when shaping regulations such as PFAS restrictions. This involvement helps policymakers understand the **practical realities of worker protection**, ensuring that legislative changes are both ambitious in sustainability terms and realistic in safeguarding frontline workers.

This position aligns closely with Roots' own view: innovation must progress, but the **safety of workers in hazardous environments cannot be compromised.**

Regulation (EU) 2016/425 – Category III PPE

Because Roots protective clothing falls under Category III PPE, we are legally required to provide the highest level of assurance. This includes:

- Independent certification of our garments.
- Ongoing quality assurance in production.
- Clear user instructions to ensure correct use and maintenance.

Removing PFAS from our protective clothing while keeping compliance with EN 13034 is part of this responsibility.

WHAT THIS MEANS FOR OUR CUSTOMERS

By choosing Roots multinorm garments, customers can be confident that:

- **Workers are protected** against chemical splashes, heat, flame, and other hazards.
- **Products are future-proof**, anticipating upcoming EU restrictions on PFAS.
- **Sustainability is real**, not just a marketing claim – Roots garments are designed for protection today and a cleaner tomorrow.

CONCLUSION

PFAS are a growing concern in society at large, but protection at work should never come at the expense of long-term health or environmental damage. At Roots, we have embraced innovation to ensure compliance with EN 13034 and Regulation (EU) 2016/425 while leading the transition away from PFAS entirely.

This makes Roots multinorm protective clothing the right choice for companies that want to protect their people responsibly – with garments that meet the highest standards of safety, sustainability, and trust.



UNDERSTANDING ELIM AND ATPV IN EN 61482 STANDARDS

ROOTS – TRUSTED PROTECTION IN CATEGORY III PPE

When it comes to protective clothing against electric arc hazards, many technical terms are used that can easily confuse wearers and buyers. Two of the most important (and often misunderstood) are **ELIM (Energy Limit Value)** and **ATPV (Arc Thermal Performance Value)**, both defined in the **EN 61482** standard for arc-rated protective clothing.

At Roots, we believe safety should be straightforward. This technical insight explains these values in simple terms, so that every wearer, safety manager, and buyer understands the difference and knows what protection they are buying.

THE CONTEXT: ELECTRIC ARC AND EN 61482

An **electric arc** occurs when electricity jumps through the air between two conductors. This can release an enormous amount of heat, light, and pressure in a split second – powerful enough to burn skin, melt metal, and ignite ordinary workwear.

To protect against this, **EN 61482** sets testing methods for clothing, ensuring that only fabrics and garments that provide proven protection are certified.

Our Roots protective clothing is **Category III PPE** under the **Regulation (EU) 2016/425**, meaning it protects against life-threatening hazards such as electric arcs.

WHAT IS ATPV?

ATPV (Arc Thermal Performance Value) indicates how much heat energy (measured in calories per square centimetre – cal/cm²) the fabric can protect against **before there is a 50% chance of a second-degree skin burn.**

- Think of ATPV as the “**breaking point**” of the fabric.
- If the arc energy is **below the ATPV**, the clothing should protect you.
- If the arc energy is **above the ATPV**, there is a significant chance of burn injury.

WHAT IS ELIM?

ELIM (Energy Limit Value) is a **newer value introduced in EN 61482-1-1:2019** to provide a safer margin. It indicates the **maximum incident energy below which the wearer can expect no second-degree burn at all.**

- ELIM is always **lower than ATPV.**
- It is considered a **more conservative and protective value**, because it is measured at the point **where no burns occur**, not just where the risk reaches 50%.

ELIM VS. ATPV: THE KEY DIFFERENCE

- ATPV: The level where 50% risk of burns starts.
- ELIM: The level where the risk of burns is eliminated (hence the name).

PUT SIMPLY:

- ELIM = Safer “no injury” level
- ATPV = Threshold with 50% chance of injury

WHY THIS MATTERS FOR YOU

When choosing arc-rated protective clothing, understanding these values helps you make safer decisions:

- If you compare two garments, both may show an arc rating – but one could have a **higher ELIM**, meaning it provides better safety in real-world use.
- Roots products are tested according to the latest standards, so you can rely on both ELIM and ATPV values being clearly presented.

- By knowing the difference, safety managers can set proper safety policies and wearers can feel greater confident in their gear.

EXAMPLE:

Imagine a garment tested with the following results:

- **ELIM: 8 cal/cm²**
- **ATPV: 10 cal/cm²**

This means:

- Up to **8 cal/cm²**, no burns are expected.
- Between **8 and 10 cal/cm²**, the likelihood of injury increases.
- Beyond **10 cal/cm²**, the risk of burns becomes unacceptable.

ROOTS COMMITMENT

At Roots, our **multinorm protective clothing** is designed not just to meet standards but to make them easy to understand. We know that our customers are experts in their jobs – but not everyone needs to be an expert in technical testing.

That’s why our new product range catalogue will always highlight both **ELIM and ATPV** values, explained in clear terms, so you can select PPE with complete confidence.

CONCLUSION

Both ELIM and ATPV are essential safety indicators under EN 61482.

- **ATPV shows the maximum energy the garment can take before there is a 50% chance of burn.**
- **ELIM is a stricter and safer value, where burns are not expected at all.**

By providing both, Roots ensures full transparency and helps safety managers and workers choose the right protection.

In short: ELIM is the “no burn” level. ATPV is the “50% burn” level. With Roots, you are always protected by both.





UNDERSTANDING EN 61482 AND LAYERED TESTING

A practical guide for multinorm protective clothing users

At Roots, we design and manufacture **Category III PPE** in line with **Regulation (EU) 2016/425**. Our clothing is trusted in industries where safety is critical. One of the most important risks we protect against is the danger of **electric arcs**.

This technical insight explains the basics of the **EN 61482** standard, with a special focus on **layered testing**, and how this ensures our multinorm workwear provides maximum protection in real working environments.

We have written this guide in plain English, so even readers who are not familiar with standards and technical language can understand what it means for them.

WHAT IS AN ELECTRIC ARC?

An electric arc is a powerful release of energy caused by a short circuit or electrical fault. It produces:

- **Extreme heat** (up to 20,000°C – hotter than the surface of the sun)

- **Bright light and radiation**
- **Molten metal droplets and pressure waves**

Exposure to an electric arc without the right protection can cause **serious burns, blindness, or even death**.

WHAT IS EN 61482?

The **EN 61482 standard** is the European test standard for clothing that protects against the thermal hazards of an electric arc.

It has two main test methods:

1. Open Arc Test (EN 61482-1-1)

- o Measures how much heat the fabric and garment can withstand.
- o The result is expressed as **ATPV (Arc Thermal Protection Value)** or **EBT (Energy Breakopen Threshold)**.
- o Higher values = better protection.

2. Box Test (EN 61482-1-2)

- o Simulates a direct arc exposure in a controlled environment.
- o Clothing is classified as:
 - **Class 1** (lower protection, 4 kA arc)
 - **Class 2** (higher protection, 7 kA arc)

WHY IS LAYERED TESTING IMPORTANT?

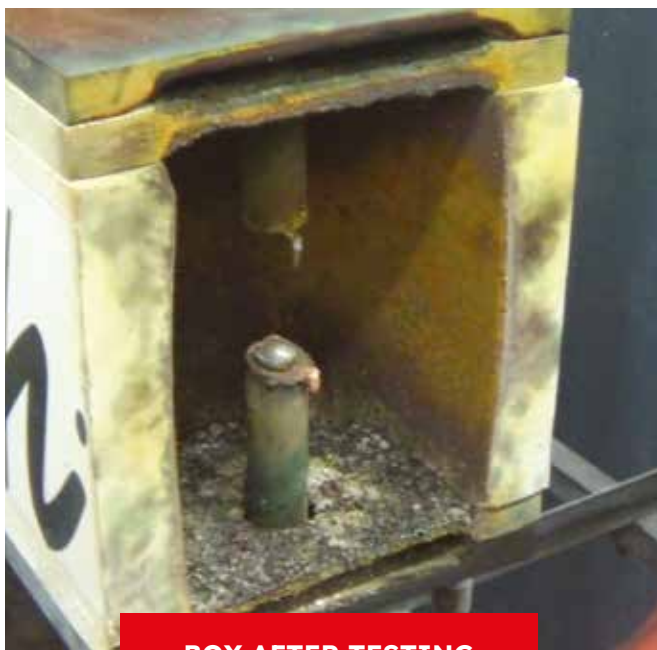
Workers often wear **more than one garment** (e.g. a shirt plus a jacket, or underwear plus coverall).

The question is: does wearing layers make protection better or worse?

- If each garment is tested **separately**, the result might not reflect real-life performance.
- When tested **together as a system**, the layers usually provide



BOX READY FOR TESTING



BOX AFTER TESTING



TESTSUBJECT AFTER TESTING

significantly higher protection than the sum of individual pieces.

This is known as the **layer effect**. For example:

- A Roots arc-rated shirt with ATPV 8 cal/cm²
- A Roots arc-rated coverall with ATPV 12 cal/cm²
- When worn together, the system may achieve **ATPV 22 cal/cm² or more**

This means layered clothing offers **added protection**, not just double-counting.

ROOTS AND LAYERED TESTING

At Roots, we go beyond the minimum legal requirements:

- **We test garments in combinations** (jackets, trousers, shirts, base layers) to prove how they perform as a full system.

- **Our test reports show real-world protection values**, not just single garment results.
- **We focus on multinorm designs**, so garments protect not only against electric arcs, but also against flame, heat, welding, and antistatic risks.

By providing tested layered solutions, we give safety managers and wearers confidence that Roots clothing will **perform exactly as needed in critical situations**.

WHY THIS MATTERS FOR YOU

For companies and workers, layered testing means:

- **Confidence:** Clothing has been tested in real combinations, not only in theory.
- **Flexibility:** Wearers can adjust layers for comfort and still remain protected.
- **Compliance:** Fully aligned with **Category III PPE** rules under EU Regulation 2016/425.

- **Safety first:** Proven protection against one of the most dangerous workplace hazards.

The **EN 61482 standard** is essential for ensuring protection against electric arcs. But the real difference comes with **layered testing**, which shows how clothing works in practice—not just in the lab.

At Roots, we are committed to **clear communication, transparent test results, and uncompromising safety**. With our multinorm PPE, workers can be sure that their protection is **tested, proven, and trusted**.

THE NECESSITY OF FEMALE WORKWEAR IN CATEGORY III PPE

For too long, workwear has been designed primarily with men in mind. Women working in hazardous environments are often provided with protective clothing that does not fit properly. This issue is particularly serious when it comes to Category III Personal Protective Equipment (PPE) – garments designed to protect against life-threatening risks such as fire, electric arc, or chemicals.

Roots, as a trusted manufacturer of multinorm workwear certified under Regulation (EU) 2016/425, recognises that ill-fitting PPE is not just an inconvenience; it is a serious safety risk. This paper explains why female workwear must be provided as standard and how Roots is addressing this gap.



WHAT IS CATEGORY III PPE?

Category III PPE covers clothing that protects workers from **very high risks**, such as:

- Exposure to heat and flames
- Electric arc incidents
- Chemical splashes
- Welding sparks and molten metal

These garments are highly technical and must meet strict EU requirements. Every detail – from stitching to closures – is tested to ensure maximum protection.

THE PROBLEM WITH “ONE-SIZE-FITS-ALL” WORKWEAR

Most PPE is developed on male body measurements. When women are given men’s clothing in smaller sizes, several problems occur:

- **Poor Fit:** Sleeves too long, trousers too loose, or jackets too tight.
- **Reduced Safety:** Excess fabric can snag in machinery; gaps in protection can expose the skin.
- **Lower Comfort:** Clothing that feels uncomfortable makes it harder to work effectively.
- **Exclusion:** Women may feel undervalued if their safety needs are overlooked.

In short, PPE designed only for men fails to protect women properly.

WHY FEMALE-SPECIFIC WORKWEAR IS ESSENTIAL

SAFETY FIRST

Ill-fitting PPE undermines the purpose of protective clothing. Properly designed women’s workwear ensures that the garment stays in place, maintains protective coverage, and does not create new risks.

LEGAL RESPONSIBILITY

Under **Regulation (EU) 2016/425**, employers must provide PPE that is **suitable for the worker**. This includes ensuring that women receive equipment designed for their body shape.

Equality and Inclusion

Providing dedicated female PPE is not only about safety – it is also about recognising the growing number of women in technical, industrial, and emergency roles. By offering female workwear, companies show they value diversity and inclusion.

PERFORMANCE AND PRODUCTIVITY

Comfortable, well-fitted garments allow workers to move more freely, focus better, and perform their tasks with confidence.

ROOTS’ COMMITMENT

Roots is committed to setting a new standard in multinorm protective clothing by making female PPE an integral part of our product portfolio, not an afterthought.

Our new female range will:

- Be designed from the ground up on women’s body measurements.
- Maintain full compliance with **Category III certification** under EU regulation.
- Include the same **multinorm protection** as our men’s range, ensuring equal safety.
- Offer ergonomic comfort, style, and durability.

The necessity of providing female-specific PPE is clear: it improves **safety, compliance, inclusion, and performance**. For Roots, this is not a “special option” but a **standard requirement**. By integrating female workwear into our catalogue, we ensure that every professional – regardless of gender – is protected by the same high-quality, life-saving multinorm garments.



LIFE CYCLE ANALYSIS (LCA) OF ROOTS MULTINORM PPE

Understanding CO₂ and Water Impact in Simple Terms

At ROOTS, we believe that protecting people should never come at the expense of protecting the planet. Our products – **Category III Personal Protective Equipment (PPE)**, produced in line with **Regulation (EU) 2016/425** – are trusted across industries where safety is critical. But safety today also means sustainability.

That is why we use **Life Cycle Analysis (LCA)** to measure and understand the environmental impact of our products, especially in terms of **CO₂ emissions** and **water use**.

This technical insight explains what an LCA is, why it matters, and what it tells us about ROOTS multinorm workwear – in **plain language**, so everyone can follow the story.

WHAT IS LIFE CYCLE ANALYSIS (LCA)?

Think of an LCA as the “**environmental biography**” of a product. Just like a person has a life story from birth to the present day, a product has a story from the moment raw materials are taken from nature, right through to the end of its useful life.

An LCA looks at every stage, including:

1. **Raw materials** – extracting cotton, polyester, or technical fibres.
2. **Manufacturing** – spinning, weaving, dyeing, cutting, sewing.
3. **Transport** – moving materials and finished garments across the globe.
4. **Use phase** – washing, drying, ironing, and repairing during the garment's life.
5. **End-of-life** – reuse, recycling, or disposal.

By adding up all these steps, we can see how much **CO₂ (carbon dioxide)** is released and how much **water** is used.

WHY DO CO₂ AND WATER MATTER?

- **CO₂ emissions** contribute to global warming and climate change. The more we emit, the more we heat up the planet.
- **Water use** is critical because fresh water is a limited resource. Many textile processes use vast amounts of water for dyeing and finishing, which puts stress on rivers and communities.

Understanding these impacts allows ROOTS to make **better choices** in how we design, produce, and maintain our PPE.

ROOTS MULTINORM WORKWEAR: WHAT THE LCA SHOWS

Our LCA results highlight some key points:

- **Materials matter most** – technical protective fabrics carry a large share of the CO₂ and water footprint. By choosing long-lasting, durable fabrics, ROOTS reduces the need for frequent replacements.
- **The use phase is crucial** – washing and drying garments again and again consumes energy and water. That is why we design clothing to withstand more washing cycles without losing protective performance.
- **End-of-life is an opportunity** – we are exploring systems for **take-back and recycling**, so valuable fibres can live on in new products instead of being wasted.





EXTENDING THE LIFE CYCLE OF WORKWEAR

At ROOTS, we believe in **extending the life cycle** of workwear. Longer-lasting garments not only mean better value for our customers, but they also mean less impact on the environment.

That's why we test and certify our workwear for a **maximum number of washing cycles**. This information will be included in our product catalogue, giving customers full transparency about the durability of each range.

For example:

- Some ROOTS ranges are certified for **50 washes** without losing their protective qualities.
- High-performance ranges are certified for **100 washes**, making them stand out in both safety and sustainability.

By providing this washing-cycle data, customers can clearly see how ROOTS garments support longer use, **fewer replacements, and a lower environmental footprint**.

WHAT THIS MEANS FOR OUR CUSTOMERS

By choosing ROOTS, customers don't just buy protection – they also:

- **Reduce their carbon footprint** through longer-lasting garments.
- **Save water** by reducing the frequency of replacements and washes.

OUR COMMITMENT GOING FORWARD

At ROOTS, we see sustainability as a journey. Our next steps include:

- Expanding LCAs to cover all major product groups.
- Publishing **washing cycle durability data** for all ROOTS ranges.
- Offering transparent sustainability data in our product catalogue.
- Working with partners to improve recycling and circular use of PPE.

Safety and sustainability go hand in hand. With ROOTS multinorm PPE, you can be confident that your team is not only protected against workplace risks but also contributing to a safer future for the planet.

Through Life Cycle Analysis, we take responsibility for the **CO₂ emissions and water use** of our products, and by focusing on **long-lasting performance**, we extend their life cycle. With certified washing-cycle data, customers know exactly how durable ROOTS garments are – a clear sign of quality, safety, and care for the environment.



WASHING CYCLES MATTER

Laundry. It's not something most people get worked up about. A cycle here, a tumble there, it's the hum of daily life, forgettable, unremarkable. Certainly not the kind of thing that stirs excitement, let alone urgency. But in our world of protective clothing, laundry is not mundane. It is decisive. Every wash is a critical event, a moment when safety is either upheld or quietly washed away.

THE SMALL PRINT YOU SHOULD KNOW ABOUT

Here's the part most people don't know about: Category III PPE can be certified for as little as five washes. Five. That's all it takes for the official safety guarantee to vanish. After that, the protection you trust may be gone. Liability-wise? You might as well be wearing an old t-shirt.

And where is this crucial detail revealed? Nowhere you'd expect to find it. Not on the neck label. Not in the datasheet. Not even in the certification file. The truth hides deep inside technical documents, buried in a file drawer at the producer's office. A file they hope you will never ask to see. Because they know perfectly well that their number is indefensible once you find out.

INHERENT, TREATED, IT MAKES NO DIFFERENCE



Because yes, this absolutely does apply to both inherent and treated fabrics. Too often, the myth floats around that inherent fibres are somehow exempt. That because they theoretically hold on to their protective properties, the rules don't apply in the same way.

But let's be clear: certification doesn't bend to theory. It doesn't say, "oh, inherent fabric? In that case, let's forget the mandatory washing cycles that form the very foundation of compliance." No. The notified bodies are not in the business of granting exceptions based on wishful thinking.

Five washing cycles for inherent means five washing cycles for inherent. Exactly the same as treated. That's the rule, and the certification lives or dies by it.

WHEN THE PAPERWORK CAN'T SAVE YOU

What does that mean in practice? It means that once those five cycles are up, the safety guarantee is gone. On paper, the garment is no longer certified. The protection you thought was there is officially null and void. And if an accident were to happen after that, the producer will pull the file out of their drawer and point towards their 5 cycles and tell you to your face "well, shouldn't have used it after 5 cycles then should you"

That might read as insanity and we'd fully agree. But it is the cold, bureaucratic reality of certification. The rules don't bend for logic. They don't bend for fibres. And they certainly don't bend for your safety. It's simply a case of computer says no.

EVERY WASH IS A SAFETY EVENT

And that is exactly why we are obsessed with laundry. Because behind the hum of the washing machine lies another frontier of safety, one that most of the industry would rather ignore.

At ROOTS, we confront it. We push the limit. We test, we certify, we prove. Because every wash matters. And every wash should still leave you protected and every single component should work towards that goal.

Not just the fabric, but also the hi-vis tape. And that makes all the difference because, and this is something you really need to know:

A GARMENT IS ONLY AS STRONG AS ITS WEAKEST LINK

Lets say a producer has an FR garment rated for 25 washes. Not great, but not terrible. Now, let's say they turn that into a hi-vis garment, but oh, what's that? The hi-vis tape they've stitched onto it is only certified for 5 washes on the hi-vis certification? You guessed it, the entire garment is now rated for 5 washes. And yes, garments like these are out there on the market. But not from ROOTS. No way.

ROOTS HAS GARMENTS CERTIFIED FOR 100 INDUSTRIAL WASHES THE HIGHEST IN THE INDUSTRY!

Yes, one hundred. Not twenty-five. Not fifty and certainly not five. One hundred. And not just on the fabric, but on the hi-vis reflective tape too. A combination nobody else has been able to match us on, it's the bar set at the very top of safety.

WHAT DO 100 WASHING CYCLES MEAN TO YOU IN PRACTICE?

Well, as you've just read a whole lot, and every bit of it good!

- **20x longer lifespan than garments certified for just 5 washes.**
- **Certified durability far beyond the industry's current 50-wash ceiling**
- **Fewer replacements**
- **Lower total cost of ownership**
- **Reduced environmental impact**

So, in the time that you would have had to buy and replace twenty low-end 5 washing cycle garments you could simply buy a single ROOTS.

And where you to buy the best of the best of the nearest competitor (50 washes), you'd still need two of them to come close to the performance of just one ROOTS.

And are we twice as expensive? No, we're not. Run the numbers and the outcome is obvious.

So when we say washing cycles matter, we mean it: five is madness, twenty-five is mediocre, fifty is just okay, but one hundred is ROOTS.









SOLVING THE ARC ENIGMA

ARCBUSTER

The question from the market sounded impossible, because it was. Create a set of garments with exceptionally high arc ratings, inherent protection, ultra-lightweight comfort, and make them last 100 industrial washes, hi-vis included.

Such garments or fabrics simply did not exist, anywhere, at all.

So, in the face of the impossible we sent out our fabric technician, though fabric whisperer might be a better title. After years of searching, testing, fine-tuning and blending, he cracked the arc

enigma. We accomplished the impossible. The result: a set of extremely lightweight 240-gram fabric that withstands 100 washes on both the fabric and the hi-vis tape. Only ROOTS has achieved this.

By combining the most advanced inherent fibres available, some we couldn't even have conceived of when we started, we built something the rest of the industry said couldn't be done.

Arcbuster is the culmination of that journey. And in solving the impossible arc enigma, we created our best garments yet.

1

RO57095LWF



ARCBUSTER INHERENT 260 HI-VIS LIGHTWEIGHT COVERALL FEMALE

| Colours | Sizes |
|----------------------|---|
| ■ Hi-Vis Orange | 8-10 to 22-24 |
| Fabric weight | Inside leg length |
| 260 g/m ² | Short: 26" Regular: 28" Tall: 30" |

Fabric composition

38% PES / 22% MAC / 20% AR / 19% CV FR / 1% antistatic. FR Fabric Type: Inherent

EN SAFETY STANDARDS

| | | | |
|--|---|-------------------------------|---|
| | | | |
| EN 13034:2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 2 A1* | EN ISO 11612:2015 A1* B1 C1 D0 E0 F1 |
| | | | |
| EN 61482-2:2020 APC 1 (4 kA) ELIM 6.8 cal/cm ² ATPV 7.0 cal/cm ² | EN ISO 20471:2013 + A1:2016* Class 3 | RIS-3279-TOM Issue 2, 2019 | ISO 15797 Industrial laundry 100 washing cycles |

* = 100 washing cycles in accordance to ISO 15797

2

RO46098F



ARCBUSTER LIGHTWEIGHT 240 HI-VIS CARGO COVERALL FEMALE

| Colours | Sizes |
|----------------------|---|
| ■ Yellow/Navy | 4-6 to 16-18 *18-20 & 20-22 as made to measure |
| Fabric weight | FR Fabric Type |
| 240 g/m ² | Short: 26" Regular: 28" (standard size) Tall: 30" |

Fabric composition

50% MAC, 38% CO, 5% aramid, 5% PA, 2% antistatic. FR Fabric Type: Inherent

EN SAFETY STANDARDS

| | | | |
|--|---|-----------------------------------|---|
| | | | |
| EN 61482:2020 ELIM 9.2 cal/cm ² ATPV 11.0 cal/cm ² APC 1 (4 kA) | EN 1149-5:2018 | EN ISO 11611:2015 Class 1 A1 | EN ISO 11612:2015 A1 B1 C1 D0 E1 F1 |
| | | | |
| ISO 6330 Domestic laundry 100 washing cycles | EN ISO 20471:2013 + A1:2016 Class 3 Rated for 100 washing cycles* | EN 13034:2005 + A1:2009 Type 6 | ISO 15797 Industrial laundry 100 washing cycles |



RO45095

| | | |
|---------------------|---------|-------------------------|
| 83.4 m ³ | 42.5 KG | 9.2 cal/cm ² |
|---------------------|---------|-------------------------|

ARC Buster LIGHTWEIGHT 240 CARGO COVERALL MALE

| Colours | Sizes |
|---------|-------|
|---------|-------|

| | |
|--------|----------------------------|
| ■ Navy | UK36 - UK60 EU46 - EU70 |
|--------|----------------------------|

| Fabric weight | Inside leg length |
|---------------|-------------------|
|---------------|-------------------|

| | |
|----------------------|---|
| 240 g/m ² | Short: 29" Regular: 31" Tall: 33" (standard size) |
|----------------------|---|

| Fabric composition |
|--------------------|
|--------------------|

50% MAC / 38% CO / 5% AR / 5% Nylon / 2% antistatic fiber. FR Fabric Type: Inherent

EN SAFETY STANDARDS

| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

| | | |
|--|---|--|
| | | |
| EN 61482:2020 ELIM 9.2 cal/cm ² ATPV 11.0 cal/cm ² APC 1 (4 kA) | ISO 15797 at 75°C Industrial laundry 100 washing cycles | ISO 6330 at 60°C Domestic laundry 100 washing cycles |



RO45095F

| | | |
|---------------------|---------|-------------------------|
| 83.4 m ³ | 42.5 KG | 9.2 cal/cm ² |
|---------------------|---------|-------------------------|

ARC Buster LIGHTWEIGHT 240 CARGO COVERALL FEMALE

| Colours | Sizes |
|---------|-------|
|---------|-------|

| | |
|--------|--|
| ■ Navy | 4-6 to 16-18 *18-20 & 20-22 as made to measure |
|--------|--|

| Fabric weight | Inside leg length |
|---------------|-------------------|
|---------------|-------------------|

| | |
|----------------------|---|
| 240 g/m ² | Short: 26" Regular: 28" Tall: 30" |
|----------------------|---|

| Fabric composition |
|--------------------|
|--------------------|

50% MAC / 38% CO / 5% AR / 5% Nylon / 2% antistatic fiber. FR Fabric Type: Inherent

EN SAFETY STANDARDS

| | | | |
|--|--|--|--|
| | | | |
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| | | |
|--|---|--|
| | | |
| EN 61482:2020 ELIM 9.2 cal/cm ² ATPV 11.0 cal/cm ² APC 1 (4 kA) | ISO 15797 at 75°C Industrial laundry 100 Washing cycles | ISO 6330 at 60°C Domestic laundry 100 washing cycles |



RO45190

| | | |
|---------------------|---------|-------------------------|
| 53.1 m ³ | 28.5 KG | 9.2 cal/cm ² |
|---------------------|---------|-------------------------|

ARC Buster LIGHTWEIGHT 240 CARGO JACKET MALE

| Colours | Sizes |
|---------|-------|
|---------|-------|

| | |
|--------|----------------------------|
| ■ Navy | UK36 - UK60 EU46 - EU70 |
|--------|----------------------------|

| Fabric weight | FR Fabric Type |
|---------------|----------------|
|---------------|----------------|

| | |
|----------------------|----------|
| 240 g/m ² | Inherent |
|----------------------|----------|

| Fabric composition |
|--------------------|
|--------------------|

50% MAC / 38% CO / 5% AR / 5% Nylon / 2% antistatic fiber.

EN SAFETY STANDARDS

| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

| | | |
|--|---|--|
| | | |
| EN 61482:2020 ELIM 9.2 cal/cm ² ATPV 11.0 cal/cm ² APC 1 (4 kA) | ISO 15797 at 75°C Industrial laundry 100 washing cycles | ISO 6330 at 60°C Domestic laundry 100 washing cycles |



RO45295

| | | |
|---------------------|---------|-------------------------|
| 51.8 m ³ | 27.3 KG | 9.2 cal/cm ² |
|---------------------|---------|-------------------------|

ARC Buster LIGHTWEIGHT 240 CARGO TROUSERS REFLECTIVE MALE

| Colours | Sizes |
|---------|-------|
|---------|-------|

| | |
|--------|----------------------------|
| ■ Navy | UK28 - UK50 EU44 - EU70 |
|--------|----------------------------|

| Fabric weight | Inside leg length |
|---------------|-------------------|
|---------------|-------------------|

| | |
|----------------------|---|
| 240 g/m ² | Short: 29" Regular: 31" Tall: 33" (standard size) |
|----------------------|---|

| Fabric composition |
|--------------------|
|--------------------|

50% MAC / 38% CO / 5% AR / 5% Nylon / 2% antistatic fiber. FR Fabric Type: Inherent

EN SAFETY STANDARDS

| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

| | | |
|--|---|--|
| | | |
| EN 61482:2020 ELIM 9.2 cal/cm ² ATPV 11.0 cal/cm ² APC 1 (4 kA) | ISO 15797 at 75°C Industrial laundry 100 washing cycles | ISO 6330 at 60°C Domestic laundry 100 washing cycles |



| | | |
|---------------------|---------|-------------------------|
| | | |
| 44.8 m ³ | 55.6 KG | 6.8 cal/cm ² |

RO57095LW

ARBUSTER INHERENT 260 HI-VIS LIGHTWEIGHT COVERALL MALE

| Colours | Sizes |
|--|---|
| ■ Hi-Vis Orange | UK34 - UK62 EU44 - EU72 |
| Fabric weight | Inside leg length |
| 260 g/m ² | Small: 29" Regular: 31" Tall: 33" |
| Fabric composition | |
| 38% PES / 22% MAC / 20% AR / 19% CV FR / 1% antistatic. FR Fabric Type: Inherent | |

EN SAFETY STANDARDS

| | | | |
|---|--|----------------------------------|---|
| | | | |
| EN 13034-2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 2 A1* | EN ISO 11612:2015 A1* B1 C1 D0 E0 F1 |
| | | | |
| EN 61482-2:2020 APC 1 (4 kA) ELIM 6.8 cal/cm ² ATPV 7.0 cal/cm ² | EN ISO 20471:2013 + A1:2016* Class 3 | RIS-3279-TOM Issue 2, 2019 | ISO 15797 Industrial laundry 100 washing cycles |

* = 100 washing cycles in accordance to ISO 15797



| | | |
|---------------------|---------|-------------------------|
| | | |
| 44.8 m ³ | 55.6 KG | 6.8 cal/cm ² |

RO57095LWF

ARBUSTER INHERENT 260 HI-VIS LIGHTWEIGHT COVERALL FEMALE

| Colours | Sizes |
|--|---|
| ■ Hi-Vis Orange | 8-10 to 22-24 |
| Fabric weight | Inside leg length |
| 260 g/m ² | Short: 26" Regular: 28" Tall: 30" |
| Fabric composition | |
| 38% PES / 22% MAC / 20% AR / 19% CV FR / 1% antistatic. FR Fabric Type: Inherent | |

EN SAFETY STANDARDS

| | | | |
|---|--|----------------------------------|---|
| | | | |
| EN 13034-2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 2 A1* | EN ISO 11612:2015 A1* B1 C1 D0 E0 F1 |
| | | | |
| EN 61482-2:2020 APC 1 (4 kA) ELIM 6.8 cal/cm ² ATPV 7.0 cal/cm ² | EN ISO 20471:2013 + A1:2016* Class 3 | RIS-3279-TOM Issue 2, 2019 | ISO 15797 Industrial laundry 100 washing cycles |

* = 100 washing cycles in accordance to ISO 15797



| | | |
|---------------------|---------|-------------------------|
| | | |
| 30.1 m ³ | 37.5 KG | 6.8 cal/cm ² |

RO57190LW

ARBUSTER INHERENT 260 HI-VIS LIGHTWEIGHT JACKET MALE

| Colours | Sizes |
|--|----------------------------|
| ■ Hi-Vis Orange | UK36 - UK56 EU46 - EU66 |
| Fabric weight | FR Fabric Type |
| 260 g/m ² | Inherent |
| Fabric composition | |
| 38% PES / 22% MAC / 20% AR / 19% CV FR / 1% antistatic | |

EN SAFETY STANDARDS

| | | | |
|---|--|-------------------------------------|---|
| | | | |
| EN 13034-2005 + A1:2009 Type PB[G] | EN 1149-5:2018 | EN ISO 11611:2015 Class 2 A1+A2* | EN ISO 11612:2015 A1+A2* B1 C1 D0 E0 F1 |
| | | | |
| EN 61482-2:2020 APC 1 (4 kA) ELIM 6.8 cal/cm ² ATPV 7.0 cal/cm ² | EN ISO 20471:2013 + A1:2016* Class 3 | RIS-3279-TOM Issue 2, 2019 | ISO 15797 Industrial laundry 100 washing cycles |

* = 100 washing cycles in accordance to ISO 15797



| | | |
|---------------------|---------|-------------------------|
| | | |
| 30.1 m ³ | 37.5 KG | 6.8 cal/cm ² |

RO57190LWF

ARBUSTER INHERENT 260 HI-VIS LIGHTWEIGHT JACKET FEMALE

| Colours | Sizes |
|--|----------------|
| ■ Hi-Vis Orange | 8-10 to 22-24 |
| Fabric weight | FR Fabric Type |
| 260 g/m ² | Inherent |
| Fabric composition | |
| 38% PES / 22% MAC / 20% AR / 19% CV FR / 1% antistatic | |

EN SAFETY STANDARDS

| | | | |
|---|--|-------------------------------------|---|
| | | | |
| EN 13034-2005 + A1:2009 Type PB[G] | EN 1149-5:2018 | EN ISO 11611:2015 Class 2 A1+A2* | EN ISO 11612:2015 A1+A2* B1 C1 D0 E0 F1 |
| | | | |
| EN 61482-2:2020 APC 1 (4 kA) ELIM 6.8 cal/cm ² ATPV 7.0 cal/cm ² | EN ISO 20471:2013 + A1:2016* Class 3 | RIS-3279-TOM Issue 2, 2019 | ISO 15797 Industrial laundry 100 washing cycles |

* = 100 washing cycles in accordance to ISO 15797



RO46095

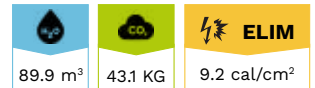
ARC BUSTER COVERALL HI-VIS MALE

| Colours | Sizes |
|--|---|
| Hi-Vis Orange/Navy | UK36 - UK64 EU46 - EU74 |
| Fabric weight | Inside leg length |
| 240 g/m ² + 260 g/m ² FR Fabric type: Inherent | Short: 29" Regular: 31" Tall: 33" (standard size) |
| Fabric composition | |

Navy - 50% MAC, 38% CO, 5% aramid, 5% PA, 2% antistatic
Orange - 38% poly, 22% MAC, 20% AR, 19% CV FR, 1% antistatic

EN SAFETY STANDARDS

| | | | |
|--|--|--|---|
| | | | |
| EN 13034:2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 1 A1 | EN ISO 11612:2015 A1 B1 C1 D0 E0 F1 |
| | | | |
| EN ISO 20471:2013 + A1:2016 Class 3 | EN 61482-2:2020 ELIM 6.8 cal/cm ² ATPV 7.0 cal/cm ² APC 1 (4 kA) | RIS-3279-TOM Issue 2 2019 Orange only (100 washing cycles) | ISO 15797 Industrial laundry 100 washing cycles |
| | | | |
| ISO 6330 Domestic laundry 100 washing cycles | | | |



RO46098

ARC BUSTER LIGHTWEIGHT 240 HI-VIS CARGO COVERALL MALE

| Colours | Sizes |
|----------------------|---|
| Yellow/Navy | UK36 - UK62 EU46 - EU72 |
| Fabric weight | FR Fabric Type |
| 240 g/m ² | Short: 29" Regular: 31" Tall: 33" (standard size) |
| Fabric composition | |

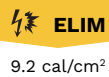
50% MAC, 38% CO, 5% aramid, 5% PA, 2% antistatic.
FR Fabric Type: Inherent

EN SAFETY STANDARDS

| | | | |
|---|---|--|---|
| | | | |
| EN 13034:2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 1 A1 | EN ISO 11612:2015 A1 B1 C1 D0 E1 F1 |
| | | | |
| EN ISO 20471:2013 + A1:2016 Class 3 Rated for 100 washing cycles* | EN 61482:2020 ELIM 9.2 cal/cm ² ATPV 11.0 cal/cm ² APC 1 (4 kA) | ISO 6330 Domestic laundry 100 washing cycles | ISO 15797 Industrial laundry 100 washing cycles |



RO45265



**ARCBUSTER LIGHTWEIGHT
240 CARGO TROUSERS MALE**

| Colours | Sizes |
|---|---|
| ■ Navy | UK28 - UK50 EU44 - EU70 |
| Fabric weight | Inside leg length |
| 240 g/m ² | Short: 29" Regular: 31" Tall: 33" (standard size) |
| Fabric composition | |
| 50% MAC / 38% CO / 5% AR / 5% Nylon / 2% antistatic fiber. FR Fabric Type: Inherent | |
| EN SAFETY STANDARDS | |

| | | | |
|--|---|--|--------------------------------------|
| | | | |
| EN 1149-5:2018 | EN ISO 11611:2015 Class 1 A1 | EN ISO 11612:2015 A1 B1 C1 D0 E1 F1 | EN 13034:2005 + A1:2009 Type 6 |
| | | | |
| EN 61482:2020 ELIM 9.2 cal/cm ² ATPV 11.0 cal/cm ² APC 1 (4 kA) | ISO 15797 at 75°C Industrial laundry 100 Washing cycles | ISO 6330 at 60°C Domestic laundry 100 Washing cycles | |



RO45265F



**ARCBUSTER LIGHTWEIGHT
240 CARGO TROUSERS FEMALE**

| Colours | Sizes |
|---|--|
| ■ Navy | 4-6 to 16-18 *18-20 & 20-22 as made to measure |
| Fabric weight | Inside leg length |
| 240 g/m ² | Short: 26" Regular: 28" Tall: 30" |
| Fabric composition | |
| 50% MAC / 38% CO / 5% AR / 5% Nylon / 2% antistatic fiber. FR Fabric Type: Inherent | |
| EN SAFETY STANDARDS | |

| | | | |
|--|---|--|--------------------------------------|
| | | | |
| EN 1149-5:2018 | EN ISO 11611:2015 Class 1 A1 | EN ISO 11612:2015 A1 B1 C1 D0 E1 F1 | EN 13034:2005 + A1:2009 Type 6 |
| | | | |
| EN 61482:2020 ELIM 9.2 cal/cm ² ATPV 11.0 cal/cm ² APC 1 (4 kA) | ISO 15797 at 75°C Industrial laundry 100 Washing cycles | ISO 6330 at 60°C Domestic laundry 100 Washing cycles | |



RO47295



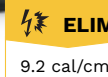
**ARCBUSTER LIGHTWEIGHT
240 HI-VIS TROUSERS MALE**

| Colours | Sizes |
|---|---|
| ■ Hi-Vis Yellow | UK28 - UK50 EU44 - EU70 |
| Fabric weight | Inside leg length |
| 240 g/m ² | Short: 29" Regular: 31" Tall: 33" (standard size) |
| Fabric composition | |
| 50% MAC / 38% CO / 5% AR / 5% Nylon / 2% antistatic fiber. FR Fabric Type: Inherent | |
| EN SAFETY STANDARDS | |

| | | | |
|--|--|--|---|
| | | | |
| EN 13034:2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 1 A1 | EN ISO 11612:2015 A1 B1 C1 D0 E1 F1 |
| | | | |
| EN 61482:2020 ELIM 9.2 cal/cm ² ATPV 11.0 cal/cm ² APC 1 (4 kA) | EN ISO 20471:2013 + A1:2016 Class 2 Rated for 100 washing cycles* | ISO 6330 Domestic laundry 100 washing cycles | ISO 15797 Industrial laundry 100 washing cycles |



RO47295F



**ARCBUSTER LIGHTWEIGHT
240 HI-VIS TROUSERS FEMALE**

| Colours | Sizes |
|---|--|
| ■ Hi-Vis Yellow | 4-6 to 16-18 *18-20 & 20-22 as made to measure |
| Fabric weight | Inside leg length |
| 240 g/m ² | Short: 26" Regular: 28" Tall: 30" |
| Fabric composition | |
| 50% MAC / 38% CO / 5% AR / 5% Nylon / 2% antistatic fiber. FR Fabric Type: Inherent | |
| EN SAFETY STANDARDS | |

| | | | |
|--|--|--|---|
| | | | |
| EN 13034:2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 1 A1 | EN ISO 11612:2015 A1 B1 C1 D0 E1 F1 |
| | | | |
| EN 61482:2020 ELIM 9.2 cal/cm ² ATPV 11.0 cal/cm ² APC 1 (4 kA) | EN ISO 20471:2013 + A1:2016 Class 2 Rated for 100 washing cycles* | ISO 6330 Domestic laundry 100 washing cycles | ISO 15797 Industrial laundry 100 washing cycles |



| | | |
|---------------------|---------|------|
| 89.9 m ³ | 43.1 KG | ELIM |
|---------------------|---------|------|

RO46098F

**ARCBUSTER LIGHTWEIGHT
240 HI-VIS CARGO COVERALL FEMALE**

| Colours | Sizes |
|--|---|
| | 4-6 to 16-18 *18-20 & 20-22 as made to measure |
| Fabric weight | Inside leg length |
| 240 g/m ² | Short: 26" Regular: 28" (standard size) Tall: 30" |
| Fabric composition | |
| 50% MAC, 38% CO, 5% aramid, 5% PA, 2% antistatic FR Fabric Type: Inherent | |

EN SAFETY STANDARDS

| | | | |
|--|---|--------------------------------------|--|
| | | | |
| EN 61482:2020 ELIM 9.2 cal/cm ² ATPV 11.0 cal/cm ² APC 1 (4 kA) | EN 1149-5:2018 | EN ISO 11611:2015 Class 1 A1 | EN ISO 11612:2015 A1 B1 C1 D0 E1 F1 |
| | | | |
| ISO 6330 Domestic laundry 100 washing cycles | ISO 15797 Industrial laundry 100 washing cycles | EN 13034:2005 + A1:2009 Type 6 | EN ISO 20471:2013 + A1:2016 Class 3 Rated for 100 washing cycles* |



| |
|------|
| ELIM |
|------|

RO46198

**ARCBUSTER LIGHTWEIGHT
240 HI-VIS CARGO JACKET MALE**

| Colours | Sizes |
|--|----------------------------|
| | UK34 - UK60 EU44 - EU70 |
| Fabric weight | FR Fabric Type |
| 240 g/m ² | Inherent |
| Fabric composition | |
| 50% MAC, 38% CO, 5% aramid, 5% PA, 2% antistatic | |

EN SAFETY STANDARDS

| | | | |
|--|--|---|--|
| | | | |
| EN 13034:2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 1 A1 | EN ISO 11612:2015 A1 B1 C1 D0 E1 F1 |
| | | | |
| EN 61482:2020 ELIM 9.2 cal/cm ² ATPV 11.0 cal/cm ² APC 1 (4 kA) | EN ISO 20471:2013 + A1:2016 Class 3 Rated for 100 washing cycles* | ISO 6330 Domestic laundry 100 wash cycles | ISO 15797 Industrial laundry 100 wash cycles |



| | | |
|---------------------|---------|------|
| 54.4 m ³ | 27.5 KG | ELIM |
|---------------------|---------|------|

RO46298

**ARCBUSTER LIGHTWEIGHT
240 HI-VIS CARGO TROUSERS MALE**

| Colours | Sizes |
|--|----------------------------|
| | UK28 - UK50 EU44 - EU70 |
| Fabric weight | Inside leg length |
| 240 g/m ² | Regular: 31" |
| Fabric composition | |
| 50% MAC, 38% CO, 5% aramid, 5% PA, 2% antistatic FR Fabric Type: Inherent | |

EN SAFETY STANDARDS

| | | | |
|--|--|---|--|
| | | | |
| EN 13034:2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 1 A1 | EN ISO 11612:2015 A1 B1 C1 D0 E1 F1 |
| | | | |
| EN 61482:2020 ELIM 9.2 cal/cm ² ATPV 11.0 cal/cm ² APC 1 (4 kA) | EN ISO 20471:2013 + A1:2016 Class 1 Rated for 100 washing cycles* | ISO 6330 Domestic laundry 100 wash cycles | ISO 15797 Industrial laundry 100 wash cycles |



| | | |
|---------------------|---------|------|
| 68.7 m ³ | 34.5 KG | ELIM |
|---------------------|---------|------|

RO46398

**ARCBUSTER LIGHTWEIGHT
240 HI-VIS CARGO BIB MALE**

| Colours | Sizes |
|--|----------------------------|
| | UK28 - UK50 EU44 - EU70 |
| Fabric weight | Inside leg length |
| 240 g/m ² | Regular: 31" |
| Fabric composition | |
| 50% MAC, 38% CO, 5% aramid, 5% PA, 2% antistatic FR Fabric Type: Inherent | |

EN SAFETY STANDARDS

| | | | |
|--|--|---|--|
| | | | |
| EN 13034:2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 1 A1 | EN ISO 11612:2015 A1 B1 C1 D0 E1 F1 |
| | | | |
| EN 61482:2020 ELIM 9.2 cal/cm ² ATPV 11.0 cal/cm ² APC 1 (4 kA) | EN ISO 20471:2013 + A1:2016 Class 1 Rated for 100 washing cycles* | ISO 6330 Domestic laundry 100 wash cycles | ISO 15797 Industrial laundry 100 wash cycles |



RO57295LW

| | | |
|---------------------|---------|------|
| 15.8 m ³ | 31.7 KG | ELIM |
|---------------------|---------|------|

ARCBUSTER INHERENT 260 HI-VIS LIGHTWEIGHT TROUSERS MALE

| Colours | Sizes |
|----------------------|----------------------------|
| ■ Hi-Vis Orange | UK36 – UK62 EU46 – EU72 |
| Fabric weight | FR Fabric Type |
| 260 g/m ² | Inherent |

Fabric composition
38% PES / 22% MAC / 20% AR / 19% CV FR / 1% antistatic

EN SAFETY STANDARDS

| | | | |
|--|--------------------------------------|-------------------------------|--------------------------------------|
| | | | |
| EN 13034:2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11612:2015 Class 2 A1* | EN ISO 11612:2015 A1* B1 C1 D0 E0 F1 |
| | | | |
| EN 61482-2:2020 APC 1 (4 kA) ELIM 6.8 cal/cm ² ATPV 7.0 cal/cm ² | EN ISO 20471:2013 + A1:2016* Class 2 | RIS-3279-TOM Issue 2, 2019 | |

* = 100 washing cycles in accordance to ISO 15797



RO57295LWF

| | | |
|---------------------|---------|------|
| 15.8 m ³ | 31.7 KG | ELIM |
|---------------------|---------|------|

ARCBUSTER INHERENT 260 HI-VIS LIGHTWEIGHT TROUSERS FEMALE

| Colours | Sizes |
|----------------------|---|
| ■ Hi-Vis Orange | 4-6 to 16-18 *18-20 & 20-22 as made to measure |
| Fabric weight | Inside leg length |
| 260 g/m ² | Short: 26" Regular: 28" Tall: 30" |

Fabric composition
38% PES / 22% MAC / 20% AR / 19% CV FR / 1% antistatic. FR Fabric Type: Inherent

EN SAFETY STANDARDS

| | | | |
|--|--------------------------------------|-------------------------------|--------------------------------------|
| | | | |
| EN 13034:2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11612:2015 Class 2 A1* | EN ISO 11612:2015 A1* B1 C1 D0 E0 F1 |
| | | | |
| EN 61482-2:2020 APC 1 (4 kA) ELIM 6.8 cal/cm ² ATPV 7.0 cal/cm ² | EN ISO 20471:2013 + A1:2016* Class 2 | RIS-3279-TOM Issue 2, 2019 | |

* = 100 washing cycles in accordance to ISO 15797



RO65300HV

| |
|------|
| ELIM |
|------|

ARCBUSTER HI-VIS POLO MALE

| Colours | Sizes |
|------------------------------------|----------------|
| ■ Hi-Vis Orange ■ Hi-Vis Yellow | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 260 g/m ² | Inherent |

Fabric composition
45% MAC / 25% polyester / 23% cotton / 6% aramid / 1% antistatic fibre

EN SAFETY STANDARDS

| | | | |
|--|-------------------------------------|-------------------------------------|--|
| | | | |
| EN 1149-5:2018 | EN ISO 20471:2013 + A1:2016 Class 3 | EN ISO 11612:2015 A1 B1 C1 D0 E0 F0 | ISO 6330 at 60°C Domestic laundry 5 washing cycles |
| | | | |
| EN 61482-2:2020 ELIM 5.8 cal/cm ² ATPV 6.6 cal/cm ² APC 1 (4 kA) | RIS-3279-TOM Orange only | | |



RO65300HVF

| |
|------|
| ELIM |
|------|

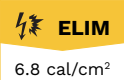
ARCBUSTER HI-VIS POLO FEMALE

| Colours | Sizes |
|------------------------------------|----------------|
| ■ Hi-Vis Orange ■ Hi-Vis Yellow | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 260 g/m ² | Inherent |

Fabric composition
45% MAC / 25% polyester / 23% cotton / 6% aramid / 1% antistatic fibre

EN SAFETY STANDARDS

| | | | |
|--|-------------------------------------|-------------------------------------|--|
| | | | |
| EN 1149-5:2018 | EN ISO 20471:2013 + A1:2016 Class 3 | EN ISO 11612:2015 A1 B1 C1 D0 E0 F0 | ISO 6330 at 60°C Domestic laundry 5 washing cycles |
| | | | |
| EN 61482-2:2020 ELIM 5.8 cal/cm ² ATPV 6.6 cal/cm ² APC 1 (4 kA) | RIS-3279-TOM Orange only | | |



RO46190

JACKET HI-VIS MALE

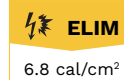
| Colours | Sizes |
|---|----------------------------|
| ■ Hi-Vis Orange/Navy | UK36 - UK62 EU46 - EU72 |
| Fabric weight | FR Fabric Type |
| 240 g/m ² + 260 g/m ² | Inherent |

Fabric composition

Navy - 50% MAC, 38% CO, 5% aramid, 5% PA, 2% antistatic
 Orange - 38% poly, 22% MAC, 20% AR, 19% CV FR, 1% antistatic

EN SAFETY STANDARDS

| | | | |
|--|--|--|---|
| | | | |
| EN 13034:2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 1 A1 | EN ISO 11612:2015 A1 B1 C1 D0 E0 F1 |
| | | | |
| EN ISO 20471:2013 + A1:2016 Class 2 Class 3 in combination with trousers | EN 61482-2:2020 ELIM 6.8 cal/cm ² ATPV 7.0 cal/cm ² APC 1 (4 kA) | RIS-3279-TOM Issue 2 2019 Orange only (100 washing cycles) | ISO 15797 Industrial laundry 100 washing cycles |
| | | | |
| ISO 6330 Domestic laundry 100 washing cycles | | | |



RO46295

TROUSERS HI-VIS MALE

| Colours | Sizes |
|---|---|
| ■ Hi-Vis Orange/Navy | UK28 - UK50 EU44 - EU70 |
| Fabric weight | Inside leg length |
| 240 g/m ² + 260 g/m ² | Short: 29" Regular: 31" Tall: 33" |

Fabric composition

Navy - 50% MAC, 38% CO, 5% aramid, 5% PA, 2% antistatic
 Orange - 38% poly, 22% MAC, 20% AR, 19% CV FR, 1% antistatic. FR Fabric type: Inherent.

EN SAFETY STANDARDS

| | | | |
|--|--|--|--|
| | | | |
| EN 13034:2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 1 A1 | EN ISO 11612:2015 A1 B1 C1 D0 E0 F1 |
| | | | |
| EN ISO 20471:2013 + A1:2016 Class 1 Class 3 in combination with jacket | EN 61482-2:2020 ELIM 6.8 cal/cm ² ATPV 7.0 cal/cm ² APC 1 (4 kA) | RIS-3279-TOM Issue 2 2019 Orange only (100 washing cycles) | ISO 15797 Industrial laundry 100 wash cycles |
| | | | |
| ISO 6330 Domestic laundry 100 wash cycles | | | |







CAN'T PICK THE WEATHER, SO PICK ROOTS.

ARCBUSTER WATERPROOF

Built on the same foundation as the groundbreaking Arcbuster range, this outerwear is engineered for professionals who face electrical risk in cold, wet and demanding conditions. It combines ROOTS' signature inherent arc protection with a super high-tech blended fabric and a durable waterproof shell designed for consistent, long-term performance.

From the waterproof membranes and sealed seams to the partly segmented hi-vis tape that improves flexibility and comfort without compromising visibility, every detail serves a

clear purpose: keeping the wearer protected, mobile and focused, whether the sun is out or it's pouring it down.

Arcbuster Waterproof carries forward the same lightweight comfort, advanced inherent technology and attention to detail that defines the regular Arcbuster, built for when the work continues through the cold and the wet.

Different conditions. Same ROOTS protection.





| | | |
|---------------------|-------|------------------------|
| 45.2 m ³ | 38 KG | 21 cal/cm ² |
|---------------------|-------|------------------------|

RO5518

ARC Buster WATERPROOF HI-VIS PARKA MALE

| Colours | Sizes |
|--|----------------|
| <ul style="list-style-type: none"> Hi-Vis Orange Hi-Vis Yellow | XS - 6XL |
| Fabric weight | FR Fabric Type |
| 230 g/m ² + 120 g/m ² | Inherent |
| Fabric composition | |

Poly FR / FR breathable coating / modacryl-cotton-para knit 230 g/m²
 lining : Nomex 120, 50% aramid, 50% FR CV, 120 g/m².

EN SAFETY STANDARDS

| | | | |
|---|-------------------------------------|--|--|
| | | | |
| EN 1149-5:2018 | EN ISO 11611:2015 A1 Class 1 | 2008 EN ISO 11612:2015 A1* B1 C1 D0 E3 F1 | EN 13034:2005 + A1:2009 Type PB[6] |
| | | | |
| EN ISO 20471:2013 + A1:2016 Class 3 | EN 343:2019 Class 4/3/X | EN 61482-2:2020 ELIM 21 cal/cm ² ATPV 27 cal/cm ² APC 2 (7kA) | ISO 6330 Domestic laundry (5 washing cycles) |
| | | | |
| RIS-3279-TOM Issue 2 Orange only | RIS-3279-TOM Issue 2 Orange only | | |



| | | |
|---------------------|-------|------------------------|
| 45.2 m ³ | 38 KG | 21 cal/cm ² |
|---------------------|-------|------------------------|

RO5518F

ARC Buster WATERPROOF HI-VIS PARKA FEMALE

| Colours | Sizes |
|--|----------------|
| <ul style="list-style-type: none"> Hi-Vis Orange Hi-Vis Yellow | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 230 g/m ² + 120 g/m ² | Inherent |
| Fabric composition | |

Poly FR / FR breathable coating / modacryl-cotton-para knit 230 g/m²
 lining : Nomex 120, 50% aramid, 50% FR CV, 120 g/m².

EN SAFETY STANDARDS

| | | | |
|---|-------------------------------------|--|--|
| | | | |
| EN 1149-5:2018 | EN ISO 11611:2015 A1 Class 1 | 2008 EN ISO 11612:2015 A1* B1 C1 D0 E3 F1 | EN 13034:2005 + A1:2009 Type PB[6] |
| | | | |
| EN ISO 20471:2013 + A1:2016 Class 3 | EN 343:2019 Class 4/3/X | EN 61482-2:2020 ELIM 21 cal/cm ² ATPV 27 cal/cm ² APC 2 (7kA) | ISO 6330 Domestic laundry (5 washing cycles) |
| | | | |
| RIS-3279-TOM Issue 2 Orange only | RIS-3279-TOM Issue 2 Orange only | | |



| |
|------------------------|
| 21 cal/cm ² |
|------------------------|

RO5519

ARC Buster WATERPROOF PARKA MALE

| Colours | Sizes |
|--|----------------|
| <ul style="list-style-type: none"> Navy | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 230 g/m ² + 120 g/m ² | Inherent |
| Fabric composition | |

Poly FR / FR breathable coating / modacryl-cotton-para knit 230 g/m²
 lining : Nomex 120, 50% aramid, 50% FR CV, 120 g/m².

EN SAFETY STANDARDS

| | | | |
|--|--|--|--|
| | | | |
| EN 343:2019 Class 4/3/X | EN 1149-5:2018 | EN ISO 11611:2015 Class 1 A1 | EN ISO 11612:2015 A1 B1 C1 D0 E3 F1 |
| | | | |
| EN 13034:2005 + A1:2009 Type PB[6] | EN 61482-2:2020 ELIM 21 cal/cm ² ATPV 27 cal/cm ² APC 2 (7kA) | ISO 6330 Domestic laundry (5 washing cycles) | |



| |
|------------------------|
| 21 cal/cm ² |
|------------------------|

RO5519F

ARC Buster WATERPROOF PARKA FEMALE

| Colours | Sizes |
|--|----------------|
| <ul style="list-style-type: none"> Navy | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 230 g/m ² + 120 g/m ² | Inherent |
| Fabric composition | |

Poly FR / FR breathable coating / modacryl-cotton-para knit 230 g/m²
 lining : Nomex 120, 50% aramid, 50% FR CV, 120 g/m².

EN SAFETY STANDARDS

| | | | |
|--|--|--|--|
| | | | |
| EN 343:2019 Class 4/3/X | EN 1149-5:2018 | EN ISO 11611:2015 Class 1 A1 | EN ISO 11612:2015 A1 B1 C1 D0 E3 F1 |
| | | | |
| EN 13034:2005 + A1:2009 Type PB[6] | EN 61482-2:2020 ELIM 21 cal/cm ² ATPV 27 cal/cm ² APC 2 (7kA) | ISO 6330 Domestic laundry (5 washing cycles) | |



| | | |
|-------------------|---------|-----------------------------|
| 38 m ³ | 33.5 KG | ELIM 21 cal/cm ² |
|-------------------|---------|-----------------------------|

RO5527

ARCBUSTER WATERPROOF HI-VIS BIB MALE

| Colours | Sizes |
|---|----------------|
| <ul style="list-style-type: none"> Hi-Vis Orange Hi-Vis Yellow/Navy | XS - 2XL |
| Fabric weight | FR Fabric Type |
| 230 g/mv + 120 g/m ² | Inherent |

Fabric composition

43% poly/carbon FR, 34% PU FR milky coating, 11% FR carbon dot, 12% FR PTFE PU, 230 g/m², lining FR Nomex 120, 50% aramid, 50% FR CV, 120 g/m².

EN SAFETY STANDARDS

| | | | |
|--|--|--|---|
| | | | |
| EN 1149-5:2018 | EN ISO 11611:2015 A1 Class 1 | 2008 EN ISO 11612:2015 A1* B1 C1 D0 E3 F1 | EN ISO 20471:2013 + A1:2016 Class 3 |
| | | | |
| EN 343:2019 Class 4/3/X | EN 13034:2005 + A1:2009 Type PB[6] | EN 61482-2:2020 ELIM 21 cal/cm ² ATPV 27 cal/cm ² APC 2 (7kA) | RIS-3279-TOM Issue 2 Orange only |
| | | | |
| ISO 6330 Domestic laundry (5 washing cycles) | | | |



| | | |
|-------------------|---------|-----------------------------|
| 38 m ³ | 33.5 KG | ELIM 21 cal/cm ² |
|-------------------|---------|-----------------------------|

RO5527F

ARCBUSTER WATERPROOF HI-VIS BIB FEMALE

| Colours | Sizes |
|---|----------------|
| <ul style="list-style-type: none"> Hi-Vis Orange Hi-Vis Yellow/Navy | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 230 g/m ² + 120 g/m ² | Inherent |

Fabric composition

43% poly/carbon FR, 34% PU FR milky coating, 11% FR carbon dot, 12% FR PTFE PU, 230 g/m², lining FR Nomex 120, 50% aramid, 50% FR CV, 120 g/m².

EN SAFETY STANDARDS

| | | | |
|--|--|--|---|
| | | | |
| EN 1149-5:2018 | EN ISO 11611:2015 A1 Class 1 | 2008 EN ISO 11612:2015 A1* B1 C1 D0 E3 F1 | EN ISO 20471:2013 + A1:2016 Class 3 |
| | | | |
| EN 343:2019 Class 4/3/X | EN 13034:2005 + A1:2009 Type PB[6] | EN 61482-2:2020 ELIM 21 cal/cm ² ATPV 27 cal/cm ² APC 2 (7kA) | RIS-3279-TOM Issue 2 Orange only |
| | | | |
| ISO 6330 Domestic laundry (5 washing cycles) | | | |



| |
|-----------------------------|
| ELIM 21 cal/cm ² |
|-----------------------------|

RO5511

ARCBUSTER WATERPROOF BIG HOOD

| Colours | Sizes |
|--|----------------|
| <ul style="list-style-type: none"> Hi-Vis Orange Hi-Vis Yellow | One size |
| Fabric weight | FR Fabric Type |
| 230 g/m ² + 120 g/m ² | Inherent |

Fabric composition

43% poly/carbon FR, 34% PU FR milky coating, 11% FR carbon dot, 12% FR PTFE PU, 230 g/m², lining FR Nomex 120, 50% aramid, 50% FR CV, 120 g/m².

EN SAFETY STANDARDS (in combination with garment)

| | | | |
|--|--|--|---|
| | | | |
| EN 1149-5:2018 | EN ISO 11611:2015 A1 Class 1 | 2008 EN ISO 11612:2015 A1* B1 C1 D0 E3 F1 | EN ISO 20471:2013 + A1:2016 Class 3 |
| | | | |
| EN 343:2019 Class 4/3/X | EN 13034:2005 + A1:2009 Type PB[6] | EN 61482-2:2020 ELIM 21 cal/cm ² ATPV 27 cal/cm ² APC 2 (7kA) | RIS-3279-TOM Issue 2 Orange only |
| | | | |
| ISO 6330 Domestic laundry (5 washing cycles) | | | |



| |
|-----------------------------|
| ELIM 21 cal/cm ² |
|-----------------------------|

RO5512

ARCBUSTER WATERPROOF HI-VIS COVERALL MALE

| Colours | Sizes |
|--|----------------|
| <ul style="list-style-type: none"> Hi-Vis Orange Hi-Vis Yellow | S - 6XL |
| Fabric weight | FR Fabric Type |
| 230 g/m ² | Inherent |

Fabric composition

43% poly/carbon FR, 34% PU FR milky coating, 11% FR carbon dot, 12% FR PTFE PU, 230 g/mv, lining FR Nomex 120, 50% aramid, 50% FR CV, 120 g/m².

EN SAFETY STANDARDS

| | | | |
|--|--|--|---|
| | | | |
| EN 1149-5:2018 | EN ISO 11611:2015 A1 Class 1 | EN ISO 11612:2015 A1 B1 C1 D0 E3 F1 | EN ISO 20471:2013 + A1:2016 Class 3 |
| | | | |
| EN 343:2019 Class 4/3/X | EN 13034:2005 + A1:2009 Type PB[6] | EN 61482-2:2020 ELIM 21 cal/cm ² ATPV 27 cal/cm ² APC 2 (7kA) | RIS-3279-TOM Issue 2 Orange only |
| | | | |
| ISO 6330 Domestic laundry (5 washing cycles) | | | |

SO, HOW WATERPROOF IS THE ARCBUSTER WATERPROOF ACTUALLY?

EXTREMELY WATERPROOF

Yes, of course every manufacturer would say that about their own range of waterproof garments but just like everything else, we have independently tested it, proven it, and brought the receipts.

Testing waterproofness is surprisingly similar to testing flame retardancy: you take a manikin, dress it in the garment, close up the hood area to focus purely on the clothing, and instead of flames, you absolutely hose it with water. And that is exactly what we did with our Arcbuster Waterproof Parka.

To give you an even better idea, here is the description of the test performed by an independent notified body:

Rain Tower: Impact from high-energy droplets

A controlled water torrent is released from a height of 5 meters onto a dressed manikin that contains the tested samples. After a predetermined exposure time, the garments are examined to determine if any water has filtered through to the underwear.

Impact time and volume of water: 1 hour. 450 L/m²

Exactly. 450 litres per square metre. That is over two household bathtubs' worth, hammered onto the garment non-stop for an hour. If a garment has weaknesses, this test will find them.

So then, how much water penetrated the Arcbuster Waterproof?

ZERO, NONE, ABSOLUTELY NO WATER PENETRATED.

That's right, after releasing a torrent of water for an hour the manikin remained completely bone dry, no water was detected on the sensors and no wet areas were detected on the underwear.

If that doesn't put the "proof" into waterproof, we don't know what will.



BEFORE TESTING - ARCBUSTER WATERPROOF PARKA



AFTER TESTING - ARCBUSTER WATERPROOF PARKA

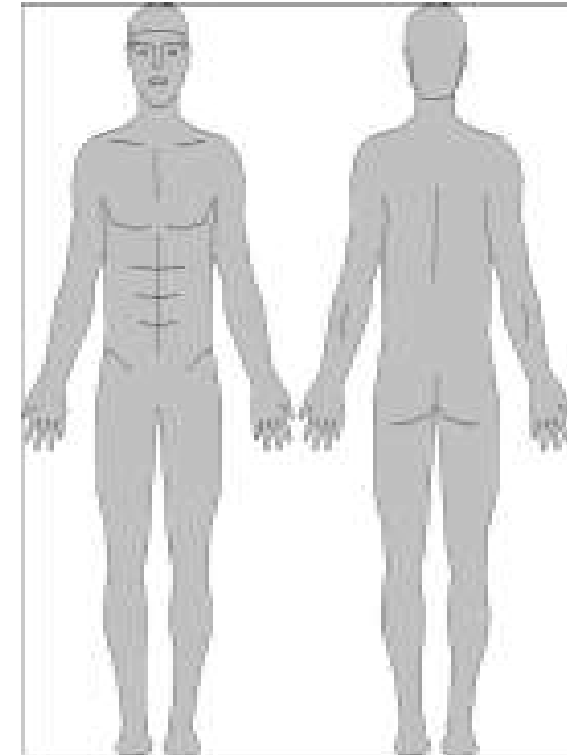
ONE HOUR.
450 LITRES OF WATER
PER SQUARE METRE.

FLIP PAGE FOR RESULTS

THESE ARE THE RESULTS FROM THE TEST PERFORMED BY AN INDEPENDENT NOTIFIED BODY.

| HUMIDITY SENSORS AND TIME OF PENETRATION OF WATER | | |
|---|-------------------|------------------------|
| Sensor | Position | Penetration time (min) |
| 1 | Right collar | --- |
| 2 | Left collar | --- |
| 3 | Right upper chest | --- |
| 4 | Left upper chest | --- |
| 5 | Right chest | --- |
| 6 | Left chest | --- |
| 7 | Under chest | --- |
| 8 | Abdomen | --- |
| 9 | Right hip | --- |
| 10 | Left hip | --- |
| 11 | Right knee | --- |
| 12 | Left knee | --- |
| 13 | Right scapula | --- |
| 14 | Left scapula | --- |
| 15 | Right bottom | --- |
| 16 | Left bottom | --- |
| 17 | Right shoulder | --- |
| 18 | Left shoulder | --- |
| 19 | Right upper arm | --- |
| 20 | Left upper arm | --- |
| 21 | Right lower arm | --- |
| 22 | Right lower arm | --- |
| 23 | Head | --- |
| 24 | Neck | --- |

Notes and comments on the test:
There aren't any leaks



| WET AREA OF THE UNDERWEAR | WET SURFACE AREA (CM ²) |
|---------------------------|-------------------------------------|
| None | 0 |

| TOTAL WET SURFACE AREA (CM ²) |
|---|
| 0 |





THE EVOLUTION OF A ROOTS ICON

FLAMEBUSTER2

Ever since the birth of ROOTS in 2004, we've been driven by one purpose: to create the best-in-class coverall in the marketplace, and to help our customers get the best out of it through proper care and maintenance. What started as the ROOTS coverall soon became known simply as Flamebuster.

Over the years, our commitment to quality and education has shaped the industry itself. Both operators and contractors now recognise the importance of professional laundry programs offshore, and the value of durable, high-performance garments that stand the test of time.

Starting as a newcomer in the oil & gas market, ROOTS has grown into one of the leading brands across major

industries, to the point where others have had to raise their standards to keep pace. In the market, Flamebuster has become known as the definitive offshore coverall, the benchmark against which all others are measured. We'll gladly take that compliment, even though, in our eyes, Flamebuster has become much more than that.

Two decades on, we proudly introduced Flamebuster²: the culmination of millions of hours of wear and tens of thousands of wearers across rigs, refineries and industrial sites worldwide. Re-engineered with today's advanced fabrics, ergonomic design and safety insight, it represents the next major step in our ongoing mission, because at ROOTS, evolution never stops, and safety always comes first.

1

| | | |
|----------------------|---------|-------------------------|
| | | |
| 238.5 m ³ | 58.9 KG | 9.7 cal/cm ² |

RO23095

FLAMEBUSTER2 NORDIC COVERALL MALE

| Colours | Sizes |
|---|---|
| <ul style="list-style-type: none"> ■ Navy ■ Red ■ Orange ■ Royal | UK34 - UK64 EU44 - EU74 |
| Fabric weight | Inside leg length |
| 320 g/m ² FR Fabric Type: Treated | Short: 29" Regular: 31" Tall: 33" (standard size) |
| Fabric composition | |
| 80% cotton / 19% polyester / 1% antistatic | |

EN SAFETY STANDARDS

| | | | |
|---|--|---|-------------------------------------|
| | | | |
| EN 13034-2005 + A1:2009 type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 2 A1 A2 | EN ISO 11612:2015 A1+A2 C1 D0 E3 F1 |
| | | | |
| EN 61482-2:2020 APC 1 (4 kA) ELIM = 9.7 cal/m ² ATPV = 10.2 cal/m ² | ISO 15797:2002 75°C Industrial laundry 50 washing cycles | ISO 6330:2012 60°C Domestic laundry 50 washing cycles | |

2

| | | |
|----------------------|---------|-------------------------|
| | | |
| 184.5 m ³ | 39.9 KG | 4.6 cal/cm ² |

RO28090ULW

FLAMEBUSTER2 NORDIC ULTRA LIGHT WEIGHT COVERALL MALE

| Colours | Sizes |
|--|---|
| <ul style="list-style-type: none"> ■ Orange | UK34 - UK62 EU44 - EU72 |
| Fabric weight | Inside leg length |
| 205 g/m ² | Short: 29" Regular: 31" Tall: 33" (standard size) |
| Fabric composition | |
| 99% cotton / 1% antistatic. FR Fabric Type: Treated | |

EN SAFETY STANDARDS

| | | |
|----------------|---|--|
| | | |
| EN 1149-5:2018 | EN 61482-2:2020 ELIM 4.6 cal/cm ² ATPV 5.4 cal/cm ² | EN ISO 11612:2015 A1+A2 B1 C1 D0 E0 F1 |



| | | |
|----------------------|---------|-------------------------|
| 238.5 m ³ | 58.9 KG | 9.7 cal/cm ² |
|----------------------|---------|-------------------------|

RO23095

FLAMEBUSTER2 NORDIC COVERALL MALE

| Colours | Sizes |
|---|---|
| Navy Red Orange Royal | UK34 - UK64 EU44 - EU74 |
| Fabric weight | Inside leg length |
| 320 g/m ² | Short: 29" Regular: 31" Tall: 33" (standard size) |
| Fabric composition | |
| 80% cotton / 19% polyester / 1% antistatic FR Fabric Type: Treated | |

EN SAFETY STANDARDS

| | | | |
|---|--|-------------------------------------|--|
| | | | |
| EN 13034:2005 + A1:2009 type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 2 A1 A2 | EN ISO 11612:2015 A1+A2 B1 C1 D0 E3 F1 |
| | | | |
| EN 61482-2:2020 APC 1 (4 kA) ELIM = 9.7 cal/m ² ATPV = 10.2 cal/m ² | ISO 15797:2002 75°C Industrial laundry | ISO 6330:2012 60°C Domestic laundry | |



| | | |
|----------------------|---------|-------------------------|
| 238.5 m ³ | 58.9 KG | 9.7 cal/cm ² |
|----------------------|---------|-------------------------|

RO23095F

FLAMEBUSTER2 NORDIC COVERALL FEMALE

| Colours | Sizes |
|---|---|
| Navy Red Orange Royal | 4-6 to 22-24 |
| Fabric weight | Inside leg length |
| 320 g/m ² | Short: 26" Regular: 28" Tall: 30" |
| Fabric composition | |
| 80% cotton / 19% polyester / 1% antistatic FR Fabric Type: Treated | |

EN SAFETY STANDARDS

| | | | |
|---|--|-------------------------------------|--|
| | | | |
| EN 13034:2005 + A1:2009 type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 2 A1 A2 | EN ISO 11612:2015 A1+A2 B1 C1 D0 E3 F1 |
| | | | |
| EN 61482-2:2020 APC 1 (4 kA) ELIM = 9.7 cal/m ² ATPV = 10.2 cal/m ² | ISO 15797:2002 75°C Industrial laundry | ISO 6330:2012 60°C Domestic laundry | |

Arctic coverall component not available separately.



RO1500

COVERALL WINTER LINER FR

| Colours | Sizes |
|---|----------------------------|
| Navy | UK34 - UK64 EU44 - EU74 |
| Fabric weight | |
| 185 g/m ² | |
| Fabric composition | |
| 100% Polyester FR Fabric Type: Treated | |

EN SAFETY STANDARDS

| |
|---------------------------|
| |
| EN ISO 14116:2015 Index 1 |



| |
|-------------------------|
| 9.7 cal/cm ² |
|-------------------------|

RO23096

FLAMEBUSTER2 ARCTIC COVERALL MALE

| Colours | Sizes |
|---|---|
| Navy Red Orange Royal | UK34 - UK64 EU44 - EU74 |
| Fabric weight | Inside leg length |
| 320 g/m ² | Short: 29" Regular: 31" Tall: 33" (standard size) |
| Fabric composition | |
| 80% cotton / 19% polyester / 1% antistatic FR Fabric Type: Treated | |

EN SAFETY STANDARDS

| | | | |
|---|--|-------------------------------------|--|
| | | | |
| EN 13034:2005 + A1:2009 type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 2 A1 A2 | EN ISO 11612:2015 A1+A2 B1 C1 D0 E3 F1 |
| | | | |
| EN 61482-2:2020 APC 1 (4 kA) ELIM = 9.7 cal/m ² ATPV = 10.2 cal/m ² | ISO 15797:2002 75°C Industrial laundry | ISO 6330:2012 60°C Domestic laundry | |



RO23190

| | | |
|----------------------|---------|------|
| 136.4 m ³ | 36.2 KG | ELIM |
|----------------------|---------|------|

JACKET FB2 NORDIC MALE

| Colours | Sizes |
|----------------------------|--|
| Navy Red Orange Royal | UK36 - UK58 EU46 - EU68 |
| Fabric weight | FR Fabric Type |
| 320 g/m ² | Treated |
| Fabric composition | 80% cotton / 19% polyester / 1% antistatic |

EN SAFETY STANDARDS

| | | | |
|--|---|--|--|
| | | | |
| EN 13034:2005 + A1:2009 type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 2 A1 A2 | EN ISO 11612:2015 A1+A2 B1 C1 D0 E3 F1 |
| | | | |
| EN 61482-2:2020 APC 1 ELIM = 9.7 cal/cm ² ATPV = 10.2 cal/cm ² | ISO 15797:2002 75°C Industrial laundry | ISO 6330:2012 60°C Domestic laundry | |



RO23295

| | | |
|----------------------|---------|------|
| 132.2 m ³ | 34.2 KG | ELIM |
|----------------------|---------|------|

FLAMEBUSTER2 NORDIC TROUSERS MALE

| Colours | Sizes |
|----------------------|---|
| Red Orange Royal | UK30 - UK48 EU46 - EU68 |
| Fabric weight | Inside leg length |
| 320 g/m ² | Short: 29" Regular: 31" Tall: 33" (standard size) |
| Fabric composition | 80% cotton / 19% polyester / 1% antistatic FR Fabric Type: Treated |

EN SAFETY STANDARDS

| | | | |
|---|---|--|--|
| | | | |
| EN 13034:2005 + A1:2009 type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 2 A1 A2 | EN ISO 11612:2015 A1+A2 B1 C1 D0 E3 F1 |
| | | | |
| EN 61482-2:2020 APC 1 (KA) ELIM = 9.7 cal/cm ² ATPV = 10.2 cal/cm ² | ISO 15797:2002 75°C Industrial laundry | ISO 6330:2012 60°C Domestic laundry | |



RO23395

| |
|-------------------------|
| ELIM |
| 9.7 cal/cm ² |

FLAMEBUSTER2 NORDIC BIB MALE

| Colours | Sizes |
|----------------------------|--|
| Navy Red Orange Royal | UK24 - UK52 EU40 - EU72 |
| Fabric weight | FR Fabric Type |
| 320 g/m ² | Treated |
| Fabric composition | 80% cotton / 19% polyester / 1% antistatic |

EN SAFETY STANDARDS

| | | | |
|---|---|--|-------------------------------------|
| | | | |
| EN 13034:2005 A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11611:2015 A1 A2 Class 2 | EN ISO 11612:2015 A1+A2 C1 D0 E3 F1 |
| | | | |
| EN 61482-2:2020 ELIM 9.7 cal/cm ² ATPV 10.2 cal/cm ² APC 1 (4 kA) | ISO 15797:2002 75°C Industrial laundry | ISO 6330:2012 60°C Domestic laundry | |



RO22297

| | | |
|----------------------|---------|------|
| 144.9 m ³ | 36.8 KG | ELIM |
|----------------------|---------|------|

MULTI PROTECTOR TROUSERS MALE

| Colours | Sizes |
|----------------------|---|
| Navy | UK24 - UK52 EU40 - EU72 |
| Fabric weight | Inside leg length |
| 320 g/m ² | Short: 29" Regular: 31" Tall: 33" (standard size) |
| Fabric composition | 80% cotton / 19% polyester / 1% antistatic FR Fabric Type: Treated |

EN SAFETY STANDARDS

| | | | |
|---|---|--|--|
| | | | |
| EN 13034:2005 + A1:2009 type 6 | EN 1149-5:2018 | EN ISO 11611:2015 Class 2 A1 A2 | EN ISO 11612:2015 A1+A2 B1 C1 D0 E3 F1 |
| | | | |
| EN 61482-2:2020 APC 1 (KA) ELIM = 9.7 cal/cm ² ATPV = 10.2 cal/cm ² | ISO 15797:2002 75°C Industrial laundry | ISO 6330:2012 60°C Domestic laundry | |



RO22097

| | | |
|----------------------|---------|-------------------------|
| 236.7 m ³ | 58.6 KG | 9.7 cal/cm ² |
|----------------------|---------|-------------------------|

MULTI PROTECTOR MULTI PROTECTOR COVERALL MALE

| Colours | Sizes |
|---|---|
| ■ Grey/Black | UK34 - UK62 UK44 - UK72 |
| Fabric weight | Inside leg length |
| 320 g/m ² | Short: 29" Regular: 31" Tall: 33" (standard size) |
| Fabric composition | |
| 80% cotton / 19% polyester / 1% antistatic FR Fabric Type: Treated | |
| EN SAFETY STANDARDS | |

| | | | |
|---|-------------------------------------|----------------------------------|--|
| | | | |
| EN 13034-2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11611:2015 A1 A2 Class 2 | EN ISO 11612:2015 A1+A2 B1 C1 D0 E3 F1 |
| | | | |
| EN 61482-2:2020 ELIM 9.7 cal/cm ² ATPV 10.2 cal/cm ² APC 1 (4 kA) | ISO 15797 - 75°C Industrial laundry | ISO 6330 - 60°C Domestic laundry | |



RO22167

| | | |
|----------------------|---------|-------------------------|
| 131.5 m ³ | 35.3 KG | 9.7 cal/cm ² |
|----------------------|---------|-------------------------|

MULTI PROTECTOR JACKET MALE

| Colours | Sizes |
|--|----------------------------|
| ■ Grey/Black | UK34 - UK62 UK44 - UK72 |
| Fabric weight | FR Fabric Type |
| 320 g/m ² | Treated |
| Fabric composition | |
| 80% cotton / 19% polyester / 1% antistatic | |
| EN SAFETY STANDARDS | |

| | | | |
|---|-------------------------------------|--|---|
| | | | |
| EN 13034-2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11611:2015 A1 A2 Class 2 (A1=50 washing cycles) | EN ISO 11612:2015 A1+A2 B1 C1 D0 E3 F1 (A1=50 washing cycles) |
| | | | |
| EN 61482-2:2020 ELIM 9.7 cal/cm ² ATPV 10.2 cal/cm ² APC 1 (4 kA) | ISO 15797 - 75°C Industrial laundry | ISO 6330 - 60°C Domestic laundry | |



RO22267

| | | |
|----------------------|---------|-------------------------|
| 133.6 m ³ | 34.3 KG | 9.7 cal/cm ² |
|----------------------|---------|-------------------------|

MULTI PROTECTOR TROUSERS MALE

| Colours | Sizes |
|---|---|
| ■ Grey/Black | UK24 - UK52 UK40 - UK72 |
| Fabric weight | Inside leg length |
| 320 g/m ² | Short: 29" Regular: 31" Tall: 33" (standard size) |
| Fabric composition | |
| 80% cotton / 19% polyester / 1% antistatic FR Fabric Type: Treated | |
| EN SAFETY STANDARDS | |

| | | | |
|---|-------------------------------------|--|---|
| | | | |
| EN 13034-2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11611:2015 A1 A2 Class 2 (A1=50 washing cycles) | EN ISO 11612:2015 A1+A2 B1 C1 D0 E3 F1 (A1=50 washing cycles) |
| | | | |
| EN 61482-2:2020 ELIM 9.7 cal/cm ² ATPV 10.2 cal/cm ² APC 1 (4 kA) | ISO 15797 - 75°C Industrial laundry | ISO 6330 - 60°C Domestic laundry | |



RO22367




| | | |
|----------------------|---------|-------------------------|
| 160.5 m ³ | 41.6 KG | 9.7 cal/cm ² |
|----------------------|---------|-------------------------|

MULTI PROTECTOR BIB MALE

| Colours | Sizes |
|---|---|
| ■ Grey/Black | UK24 - UK52 UK40 - UK72 |
| Fabric weight | Inside leg length |
| 320 g/m ² | Short: 29" Regular: 31" Tall: 33" (standard size) |
| Fabric composition | |
| 80% cotton / 19% polyester / 1% antistatic FR Fabric Type: Treated | |
| EN SAFETY STANDARDS | |

| | | | |
|---|-------------------------------------|--|---|
| | | | |
| EN 13034-2005 + A1:2009 Type 6 | EN 1149-5:2018 | EN ISO 11611:2015 A1 A2 Class 2 (A1=50 washing cycles) | EN ISO 11612:2015 A1+A2 B1 C1 D0 E3 F1 (A1=50 washing cycles) |
| | | | |
| EN 61482-2:2020 ELIM 9.7 cal/cm ² ATPV 10.2 cal/cm ² APC 1 (4 kA) | ISO 15797 - 75°C Industrial laundry | ISO 6330 - 60°C Domestic laundry | |



| | | |
|--|--|--|
|  184.5 m ³ |  39.9 KG |  ELIM |
|--|--|--|

RO28090ULW

FLAMEBUSTER2 NORDIC ULTRA LIGHT WEIGHT COVERALL MALE

| Colours | Sizes |
|--|---|
| <ul style="list-style-type: none"> ■ Orange | <ul style="list-style-type: none"> UK34 - UK60 EU44 - EU72 |
| Fabric weight | Inside leg length |
| 205 g/m ² | <ul style="list-style-type: none"> Short: 29" Regular: 31" Tall: 33" (standard size) |

Fabric composition
99% cotton / 1% antistatic.
FR Fabric Type: Treated

EN SAFETY STANDARDS



EN 1149-5:2018






EN 61482-2:2020
ELIM 4.6 cal/cm²
ATPV 5.4 cal/cm²



EN ISO 11612:2015
A1+A2 B1 C1 D0 E0 F1



| | | |
|--|---|--|
|  188.2 m ³ |  47.9 KG |  ELIM |
|--|---|--|

RO23095LW

FLAMEBUSTER2 LIGHTWEIGHT COVERALL MALE

| Colours | Sizes |
|---|---|
| <ul style="list-style-type: none"> ■ Navy ■ Red ■ Orange ■ Royal | <ul style="list-style-type: none"> UK36 - UK58 EU46 - EU68 |
| Fabric weight | Inside leg length |
| 250 g/m ² | <ul style="list-style-type: none"> Short: 29" Regular: 31" Tall: 33" (standard size) |

Fabric composition
80% cotton / 19% polyester / 1% antistatic
FR Fabric Type: Treated

EN SAFETY STANDARDS



EN 13034:2005 + A1:2009
Type 6



EN 1149-5:2018



EN ISO 11612:2015
Class 1 A1



EN ISO 11612:2015
A1 B1 C1 D0 E0 F1
A1 = 50 washing cycles



EN 61482-2:2020
ELIM 9.2 cal/cm²
ATPV 10.1 cal/cm²
APC 1 (4 kA)





STAND UP TO THE ELEMENTS

STORMBUSTER

When the weather turns and the job still needs doing, Stormbuster delivers. Built on decades of ROOTS experience in protective workwear, it combines full waterproof performance with the comfort and durability professionals depend on every day.

Every component is designed with purpose, from the reinforced seams to the breathable, weather-resistant fabric that keeps workers dry without sacrificing mobility. Developed in close collaboration with those who wear it, Stormbuster embodies practical innovation.

Features such as its specially engineered waterproof hood, designed to fit comfortably under any hard hat, solve the everyday irritations that were once accepted as inevitable. Because in real working conditions, small details make the biggest difference.

Stormbuster isn't just made to withstand the weather.

It is decades of ROOTS experience in protective clothing distilled into a waterproof range of garments you can trust.

1

RO1517



STORMBUSTER CLASSIC WATERPROOF PARKA MALE

| Colours | Sizes |
|--|----------------|
| <ul style="list-style-type: none"> ■ Yellow/Navy ■ Orange/Navy | XS - 6XL |
| Fabric weight | FR Fabric Type |
| 250 g/m ² + 185 g/m ² | Treated |
| Fabric composition | |

Outer fabric - 99% polyester / 1% antistatic
Inner fabric - 100% FR cotton

EN SAFETY STANDARDS



2

RO4517

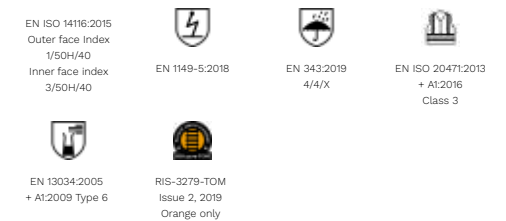


STORMBUSTER CONTRACTOR WATERPROOF PARKA MALE

| Colours | Sizes |
|--|----------------|
| <ul style="list-style-type: none"> ■ Orange ■ Yellow | XS - 6XL |
| Fabric weight | FR Fabric Type |
| 435 g/m ² | Treated |
| Fabric composition | |

Outer fabric - 99% polyester / 1% antistatic
Inner fabric - 100% FR cotton

EN SAFETY STANDARDS





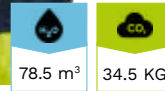
RO1517

STORMBUSTER CLASSIC WATERPROOF PARKA MALE

| Colours | Sizes |
|--|----------------|
| <ul style="list-style-type: none"> ■ Yellow/Navy ■ Orange/Navy | XS - 6XL |
| Fabric weight | FR Fabric Type |
| 250 g/m ² + 185 g/m ² | Treated |
| Fabric composition | |

Outer fabric - 99% polyester / 1% antistatic
Inner fabric - 100% FR cotton

EN SAFETY STANDARDS



RO1547

STORMBUSTER CLASSIC WATERPROOF BOMBER MALE

| Colours | Sizes |
|--|----------------|
| <ul style="list-style-type: none"> ■ Yellow/Navy ■ Orange/Navy | S - 4XL |
| Fabric weight | FR Fabric Type |
| 435 g/m ² | Treated |
| Fabric composition | |

Outer fabric - 99% polyester / 1% antistatic
Inner fabric - 100% FR cotton

EN SAFETY STANDARDS



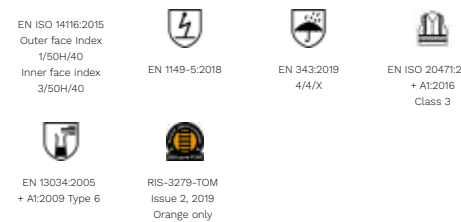
RO4517

STORMBUSTER CONTRACTOR WATERPROOF PARKA MALE

| Colours | Sizes |
|--|----------------|
| <ul style="list-style-type: none"> ■ Orange ■ Yellow | XS - 6XL |
| Fabric weight | FR Fabric Type |
| 435 g/m ² | Treated |
| Fabric composition | |

Outer fabric - 99% polyester / 1% antistatic
Inner fabric - 100% FR cotton

EN SAFETY STANDARDS



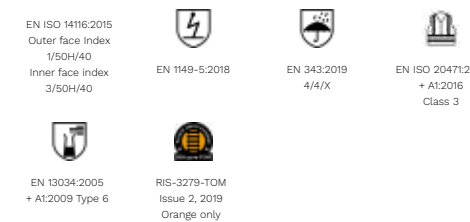
RO4547

STORMBUSTER CONTRACTOR WATERPROOF BOMBER MALE

| Colors | Sizes |
|--|----------------|
| <ul style="list-style-type: none"> ■ Orange ■ Yellow | XS - 6XL |
| Fabric weight | FR Fabric Type |
| 435 g/m ² | Treated |
| Fabric composition | |

Outer fabric - 99% polyester / 1% antistatic
Inner fabric - 100% FR cotton

EN SAFETY STANDARDS





69.2 m³ 35.2 KG

RO1519

STORMBUSTER CLASSIC WATERPROOF PARKA MALE

| Colours | Sizes |
|---------|----------|
| ■ Navy | XS - 6XL |

| Fabric weight | FR Fabric Type |
|---|----------------|
| 250 g/m ² + 185 g/m ² | Treated |

Fabric composition

Outer fabric - 99% polyester / 1% antistatic
Inner fabric - 100% FR cotton

EN SAFETY STANDARDS

EN 1149-5:2018
 EN 343:2019 4/4/X
 EN 13034:2005+A1:2009 Type PB [6]
 EN ISO 14116:2015 Outer face index 1 Inner face index 3



55.9 m³ 20.3 KG

RO1558

STORMBUSTER CLASSIC BODYWARMER MALE

| Colours | Sizes |
|---------|----------|
| ■ Navy | XS - 6XL |

| Fabric weight | FR Fabric Type |
|---|----------------|
| 250 g/m ² + 185 g/m ² | Treated |

Fabric composition

Outer fabric - 99% polyester / 1% antistatic
Inner fabric - 100% FR cotton

EN SAFETY STANDARDS

EN 1149-5:2018
 EN 343:2019 4/4/X
 EN 13034:2005+A1:2009 Type PB [6]
 EN ISO 14116:2015 Outer face index 1 Inner face index 3



4.5 m³ 15.5 KG

RO1502

STORMBUSTER FR JACKET MALE

| Colours | Sizes |
|---------|----------|
| ■ Navy | XS - 6XL |

| Fabric weight | FR Fabric Type |
|---------------------|----------------|
| 80 g/m ² | Treated |

Fabric composition

100% PES

EN SAFETY STANDARDS

EN ISO 14116:2015 Index 1



4.2 m³ 15.2 KG

RO1501

STORMBUSTER NON FR JACKET MALE

| Colours | Sizes |
|---------|----------|
| ■ Black | XS - 6XL |

| Fabric weight | FR Fabric Type |
|---------------------|----------------|
| 80 g/m ² | Non FR |

Fabric composition

Non FR Polyester



 55.9 m³
 20.3 KG

RO1557

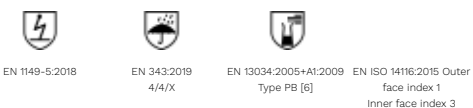
STORMBUSTER CLASSIC HI-VIS BODYWARMER MALE

| Colours | Sizes |
|--|----------------|
|   | S - 6XL |
| Fabric weight | FR Fabric Type |
| 250 g/m ² + 185 g/m ² | Treated |

Fabric composition

Outer fabric - 99% polyester / 1% antistatic
Inner fabric - 100% FR cotton


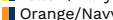
EN SAFETY STANDARDS



 77.9 m³
 43.3 KG

RO1527

STORMBUSTER CLASSIC WATERPROOF BIB MALE



| Colours | Sizes |
|--|----------------|
|   | S - 4XL |
| Fabric weight | FR Fabric Type |
| 435 g/m ² | Treated |

Fabric composition

Outer fabric - 99% polyester / 1% antistatic
Inner fabric - 100% FR cotton

EN SAFETY STANDARDS



 78.7 m³
 44.4 KG

RO1537

STORMBUSTER CLASSIC WATERPROOF TROUSERS MALE

| Colours | Sizes |
|--|----------------|
|   | S - 4XL |
| Fabric weight | FR Fabric Type |
| 435 g/m ² | Treated |

Fabric composition

Outer fabric - 99% polyester / 1% antistatic
Inner fabric - 100% FR cotton

EN SAFETY STANDARDS





BUILT FOR THE SWEET SPOT

SOFTSHELL JACKETS

Protection doesn't always mean heavy layers or extreme conditions. The ROOTS Softshell Jackets are designed for that sweet spot, where the wearing dynamics of a work jacket, parka or bomber would be a bit too much, but their protection and practicality are not.

practicality in one. Reinforced seams, high-quality zippers and smart pocket placement make it as functional in the field as it is comfortable off duty.

Light, flexible and wind-resistant, the ROOTS softshell bridges the gap between outerwear and everyday wear. The fabric moves effortlessly with the body, while its membrane keeps you dry and comfortable through changing conditions.

A ROOTS softshell doesn't shout protection, it delivers it, consistently, and exactly where it counts.

Every detail has been engineered for professionals who demand mobility, protection, durability and

1

RO37890F

ELIM
15.2 cal/cm²

SOFTSHELL HI-VIS FR FEMALE

| Colours | Sizes |
|----------------------|----------------|
| Orange | XS - 2XL |
| Fabric weight | FR Fabric Type |
| 350 g/m ² | Inherent |
| Fabric composition | |
| FR Softshell | |

EN SAFETY STANDARDS

| | | | |
|--|--|-------------------------------------|---------------------------|
| EN 1149-5:2018 | EN ISO 11611:2015 A1 Class 2 | EN ISO 11612:2015 A1 B2 C2 D0 E1 F2 | RIS-3279-TOM Issue 2 2019 |
| EN 61482-2:2020 ELIM 15.2 cal/cm ² ATPV 18.2 cal/cm ² APC 1 (4 kA) | EN ISO 20471:2013 +A1:2016 Class 3 RWS | EN 13034:2005 +A1:2019 Type PB[6] | |

2

RO37790HV

 49.9 m³
 37 KG
 15.2 cal/cm²

SOFTSHELL TWO-TONE HI-VIS FR MALE

| Colours | Sizes |
|----------------------|----------------|
| Yellow/Navy | XS - 6XL |
| Fabric weight | FR Fabric Type |
| 350 g/m ² | Inherent |
| Fabric composition | |
| FR Softshell | |

EN SAFETY STANDARDS

| | | | |
|------------------------------------|-----------------------------------|-------------------------------------|--|
| EN 1149-5:2018 | EN ISO 11611:2015 A1 Class 2 | EN ISO 11612:2015 A1 B2 C2 D0 E1 F2 | EN 61482-2:2020 ELIM 15.2 cal/cm ² ATPV 18.2 cal/cm ² APC 1 (4 kA) |
| EN ISO 20471:2013 +A1:2016 Class 2 | EN 13034:2005 +A1:2019 Type PB[6] | | |



ELIM
15.2 cal/cm²

RO31697

SOFTSHELL FR MALE

| Colours | Sizes |
|----------------------|----------------|
| ■ Navy | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 350 g/m ² | Inherent |
| Fabric composition | |
| FR Softshell | |
| EN SAFETY STANDARDS | |

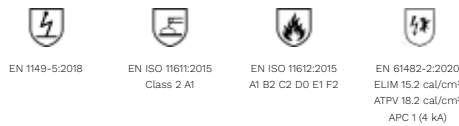


ELIM
15.2 cal/cm²

RO31697F

SOFTSHELL FR FEMALE

| Colours | Sizes |
|----------------------|----------------|
| ■ Navy | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 350 g/m ² | Inherent |
| Fabric composition | |
| FR Softshell | |
| EN SAFETY STANDARDS | |



49.9 m³ 37 KG **ELIM** 15.2 cal/cm²

RO37790HV

SOFTSHELL TWO-TONE HI-VIS FR MALE

| Colours | Sizes |
|----------------------|----------------|
| ■ Yellow/Navy | XS - 6XL |
| Fabric weight | FR Fabric Type |
| 350 g/m ² | Inherent |
| Fabric composition | |
| FR Softshell | |
| EN SAFETY STANDARDS | |



49.9 m³ 37 KG **ELIM** 15.2 cal/cm²

RO37790HVF

SOFTSHELL HI-VIS TWO-TONE FR FEMALE

| Colours | Sizes |
|----------------------|----------------|
| ■ Yellow/Navy | XS - 2XL |
| Fabric weight | FR Fabric Type |
| 350 g/m ² | Inherent |
| Fabric composition | |
| FR Softshell | |
| EN SAFETY STANDARDS | |





 **ELIM**
15.2 cal/cm²

RO37890

SOFTSHELL HI-VIS FR MALE




| Colours | Sizes |
|---|----------|
|  Orange | XS - 6XL |

| Fabric weight | FR Fabric Type |
|----------------------|----------------|
| 350 g/m ² | Inherent |

Fabric composition

FR Softshell

EN SAFETY STANDARDS

| | | | |
|---|---|---|---|
|  |  |  |  |
| EN 1149-5:2018 | EN ISO 11611:2015 A1 Class 2 | EN ISO 11612:2015 A1 B2 C2 D0 E1 F2 | RIS-3279-TOM Issue 2 2019 |


| | | |
|---|---|---|
|  |  |  |
| EN 61482-2:2020 ELIM 15.2 cal/cm ² ATPV 18.2 cal/cm ² APC 1 (4 kA) | EN ISO 20471:2013 + A1:2016 Class 3 RWS | EN 13034:2005 +A1:2019 Type PB[E] |



 **ELIM**
15.2 cal/cm²

RO37890F

SOFTSHELL HI-VIS FR FEMALE





| Colours | Sizes |
|---|----------|
|  Orange | XS - 2XL |

| Fabric weight | FR Fabric Type |
|----------------------|----------------|
| 350 g/m ² | Inherent |

Fabric composition

FR Softshell

EN SAFETY STANDARDS

| | | | |
|---|---|---|---|
|  |  |  |  |
| EN 1149-5:2018 | EN ISO 11611:2015 A1 Class 2 | EN ISO 11612:2015 A1 B2 C2 D0 E1 F2 | RIS-3279-TOM Issue 2 2019 |

| | | |
|---|---|---|
|  |  |  |
| EN 61482-2:2020 ELIM 15.2 cal/cm ² ATPV 18.2 cal/cm ² APC 1 (4 kA) | EN ISO 20471:2013 + A1:2016 Class 3 RWS | EN 13034:2005 +A1:2019 Type PB[E] |



 37.3 m³  33.7 KG  **ELIM**
15.2 cal/cm²

RO37760

SOFTSHELL FR MALE





| Colours | Sizes |
|---|----------|
|  Grey/Black | XS - 6XL |

| Fabric weight | FR Fabric Type |
|----------------------|----------------|
| 350 g/m ² | Inherent |

Fabric composition

FR Softshell

EN SAFETY STANDARDS

| | | | |
|---|---|---|---|
|  |  |  |  |
| EN 61482-2:2020 ELIM 15.2 cal/cm ² ATPV 18.2 cal/cm ² APC 1 (4 kA) | EN 1149-5:2018 | EN ISO 11611:2015 Class 2 A1 | EN ISO 11612:2015 A1 B2 C2 E1 F2 |



PROTECTION STARTS AT THE FOUNDATION

FR ARC UNDERWEAR

When it comes to arc protection, the first layer is often the most overlooked, yet it can make all the difference. ROOTS FR ARC Underwear is engineered to perform where it matters most:

NEXT TO THE SKIN.

This inherently flame-resistant baselayer forms the foundation of a complete arc-rated system. When combined with ROOTS outer layers, it delivers insanely high ARC ratings, offering a crucial extra buffer between the wearer and the heat of an arc flash.

But protection is only half the story. The fabric is lightweight, highly breathable and incredibly

soft, keeping wearers cool, dry and comfortable throughout long shifts. It regulates body temperature, manages moisture efficiently, and stretches naturally with every movement.

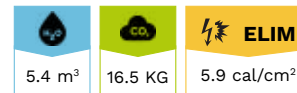
It's so comfortable, in fact, that you could wear it as pyjamas if you were so inclined.

ROOTS FR ARC Underwear proves that real protection doesn't have to come at the cost of comfort. It's the invisible layer that turns good protection into incredible protection.

1

2

1



RO35300F

FR ARC POLO LONG SLEEVE FEMALE

| Colours | Sizes |
|----------------------|----------------|
| ■ Navy | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 210 g/m ² | Inherent |

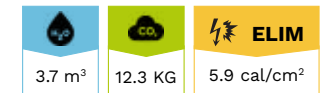
Fabric composition

55% MAC / 43% Viscose / 2% antistatic fibre

EN SAFETY STANDARDS

| | | | |
|----------------|--|--|--|
| | | | |
| EN 1149-5:2018 | EN ISO 11612:2015 A1 B1 C1 D0 E0 F0 | EN 61482-2:2020 ELIM 5.9 cal/cm ² EBT50 6.5 cal/cm ² APC 1 (4 kA) | ISO 6330 at 40°C Domestic laundry 5 washing cycles |

2



RO35100

FR ARC T-SHIRT LONG SLEEVE MALE

| Colours | Sizes |
|----------------------|----------------|
| ■ Navy | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 210 g/m ² | Inherent |

Fabric composition

55% MAC / 43% Viscose / 2% antistatic fibre

EN SAFETY STANDARDS

| | | | |
|----------------|--|--|--|
| | | | |
| EN 1149-5:2018 | EN ISO 11612:2015 A1 B1 C1 D0 E0 F0 | EN 61482-2:2020 ELIM 5.9 cal/cm ² EBT50 6.5 cal/cm ² APC 1 (4 kA) | ISO 6330 at 40°C Domestic laundry 5 washing cycles |



| | | |
|--------------------|---------|-------------------------|
| 3.7 m ³ | 12.3 KG | 5.9 cal/cm ² |
|--------------------|---------|-------------------------|

RO35100

FR ARC T-SHIRT LONG SLEEVE MALE

| Colours | Sizes |
|---|----------------|
| ■ Navy | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 210 g/m ² | Inherent |
| Fabric composition | |
| 55% MAC / 43% Viscose / 2% antistatic fibre | |

EN SAFETY STANDARDS

| | | | |
|----------------|--|--|--|
| | | | |
| EN 1149-5:2018 | EN ISO 11612:2015 A1 B1 C1 DO EO FO | EN 61482-2:2020 ELIM 5.9 cal/cm ² EBT50 6.5 cal/cm ² APC 1 (4 KA) | ISO 6330 at 40°C Domestic laundry 5 washing cycles |



| | | |
|--------------------|---------|-------------------------|
| 3.7 m ³ | 12.3 KG | 5.9 cal/cm ² |
|--------------------|---------|-------------------------|

RO35100F

FR ARC T-SHIRT LONG SLEEVE FEMALE

| Colours | Sizes |
|---|----------------|
| ■ Navy | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 210 g/m ² | Inherent |
| Fabric composition | |
| 55% MAC / 43% Viscose / 2% antistatic fibre | |

EN SAFETY STANDARDS

| | | | |
|----------------|--|--|--|
| | | | |
| EN 1149-5:2018 | EN ISO 11612:2015 A1 B1 C1 DO EO FO | EN 61482-2:2020 ELIM 5.9 cal/cm ² EBT50 6.5 cal/cm ² APC 1 (4 KA) | ISO 6330 at 40°C Domestic laundry 5 washing cycles |



| | | |
|------------------|---------|-------------------------|
| 3 m ³ | 10.2 KG | 5.9 cal/cm ² |
|------------------|---------|-------------------------|

RO35120

FR ARC LONG JOHN MALE

| Colours | Sizes |
|---|----------------|
| ■ Navy | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 210 g/m ² | Inherent |
| Fabric composition | |
| 55% MAC / 43% Viscose / 2% antistatic fibre | |

EN SAFETY STANDARDS

| | | | |
|----------------|--|--|--------------------------------------|
| | | | |
| EN 1149-5:2018 | EN ISO 11612:2015 A1 B1 C1 DO EO FO | EN 61482-2:2020 ELIM 5.9 cal/cm ² EBT50 6.5 cal/cm ² APC 1 (4 KA) | ISO 6330 at 40°C 5 washing cycles |



| | | |
|------------------|---------|-------------------------|
| 3 m ³ | 10.2 KG | 5.9 cal/cm ² |
|------------------|---------|-------------------------|

RO35120F

FR ARC LONG JOHN FEMALE

| Colours | Sizes |
|---|----------------|
| ■ Navy | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 210 g/m ² | Inherent |
| Fabric composition | |
| 55% MAC / 43% Viscose / 2% antistatic fibre | |

EN SAFETY STANDARDS

| | | | |
|----------------|--|--|--|
| | | | |
| EN 1149-5:2018 | EN ISO 11612:2015 A1 B1 C1 DO EO FO | EN 61482-2:2020 ELIM 5.9 cal/cm ² EBT50 6.5 cal/cm ² APC 1 (4 KA) | ISO 6330 at 40°C Domestic laundry 5 washing cycles |



| | | |
|--------------------|---------|-------------------------|
| 5.4 m ³ | 16.5 KG | 5.9 cal/cm ² |
|--------------------|---------|-------------------------|

RO35300

FR ARC POLO LONG SLEEVE MALE

| Colours | Sizes |
|---|----------------|
| ■ Navy | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 210 g/m ² | Inherent |
| Fabric composition | |
| 55% MAC / 43% Viscose / 2% antistatic fibre | |

EN SAFETY STANDARDS

| | | | |
|----------------|--|--|--|
| | | | |
| EN 1149-5:2018 | EN ISO 11612:2015 A1 B1 C1 D0 E0 F0 | EN 61482-2:2020 ELIM 5.9 cal/cm ² EBT50 6.5 cal/cm ² APC 1 (4 kA) | ISO 6330 at 40°C Domestic laundry 5 washing cycles |



| | | |
|--------------------|---------|-------------------------|
| 5.4 m ³ | 16.5 KG | 5.9 cal/cm ² |
|--------------------|---------|-------------------------|

RO35300F

FR ARC POLO LONG SLEEVE FEMALE

| Colours | Sizes |
|---|----------------|
| ■ Navy | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 210 g/m ² | Inherent |
| Fabric composition | |
| 55% MAC / 43% Viscose / 2% antistatic fibre | |

EN SAFETY STANDARDS

| | | | |
|----------------|--|--|--|
| | | | |
| EN 1149-5:2018 | EN ISO 11612:2015 A1 B1 C1 D0 E0 F0 | EN 61482-2:2020 ELIM 5.9 cal/cm ² EBT50 6.5 cal/cm ² APC 1 (4 kA) | ISO 6330 at 40°C Domestic laundry 5 washing cycles |



| | | |
|--------------------|--------|-------------------------|
| 0.9 m ³ | 3.3 KG | 5.9 cal/cm ² |
|--------------------|--------|-------------------------|

RO35400

FR ARC SNOOD

| Colours | Sizes |
|---|----------------|
| ■ Navy | One Size |
| Fabric weight | FR Fabric Type |
| 210 g/m ² | Inherent |
| Fabric composition | |
| 55% MAC / 43% Viscose / 2% antistatic fibre | |

EN SAFETY STANDARDS

| | | | |
|----------------|--|--|--|
| | | | |
| EN 1149-5:2018 | EN ISO 11612:2015 A1 B1 C1 D0 E0 F0 | EN 61482-2:2020 ELIM 5.9 cal/cm ² EBT50 6.5 cal/cm ² APC 1 (4 kA) | ISO 6330 at 40°C Domestic laundry 5 washing cycles |



| | | |
|--------------------|--------|-------------------------|
| 0.8 m ³ | 3.2 KG | 5.9 cal/cm ² |
|--------------------|--------|-------------------------|

RO35500

FR ARC BALACLAVA

| Colours | Sizes |
|---|----------------|
| ■ Navy | One Size |
| Fabric weight | FR Fabric Type |
| 210 g/m ² | Inherent |
| Fabric composition | |
| 55% MAC / 43% Viscose / 2% antistatic fibre | |

EN SAFETY STANDARDS

| | | | |
|----------------|--|--|--|
| | | | |
| EN 1149-5:2018 | EN ISO 11612:2015 A1 B1 C1 D0 E0 F0 | EN 61482-2:2020 ELIM 5.9 cal/cm ² EBT50 6.5 cal/cm ² APC 1 (4 kA) | ISO 6330 at 40°C Domestic laundry 5 washing cycles |





 **ELIM**
5.9 cal/cm²

RO35700

FR ARC HIJAB

| Colours | Sizes |
|---|----------------|
| ■ Navy | One Size |
| Fabric weight | FR Fabric Type |
| 210 g/m ² | Inherent |
| Fabric composition | |
| 55% MAC / 43% Viscose / 2% antistatic fibre | |
| EN SAFETY STANDARDS | |

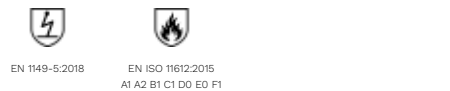


 **73.7 m³**  **37.6 KG**

RO14690

FR FLEECE MALE

| Colours | Sizes |
|--|----------------|
| ■ Navy | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 300 g/m ² | Inherent |
| Fabric composition | |
| 60% modacrylic / 35% cotton / 4% nylon / 1% antistatic | |
| EN SAFETY STANDARDS | |

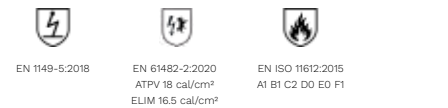



 **ELIM**
16.5 cal/cm²

RO36100

SWEATER FR LONG SLEEVES MALE

| Colours | Sizes |
|---|----------------|
| ■ Navy | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 350 g/m ² | Treated |
| Fabric composition | |
| 58% modacrylic / 40% cotton / 2% antistatic | |
| EN SAFETY STANDARDS | |



 **ELIM**
16.5 cal/cm²

RO36200

HI-VIS QUARTER ZIP MALE

| Colours | Sizes |
|---|----------------|
| ■ Hi-Vis Yellow ■ Hi-Vis Orange | XS - 4XL |
| Fabric weight | FR Fabric Type |
| 350 g/m ² | Treated |
| Fabric composition | |
| 58% modacrylic / 40% cotton / 2% antistatic | |
| EN SAFETY STANDARDS | |









FILL YOUR BOOTS.

ROOTS FOOTWEAR

We didn't exactly set out to become bootmakers. We just wanted footwear that met the same standards as our garments, and when we couldn't find it, we made it ourselves. During that process, we discovered we're actually pretty good at it too.

What began as a complimentary offering has grown into a full-fledged part of the ROOTS range: a small but well-rounded footwear collection, with thousands of pairs walking off rigs, sites and factories every year. Built with the same mindset as our clothing, durable materials, proven protection and effortless comfort.

Put them on and go. No week-long breaking-in period, just comfort from the start.

They're tough, dependable and unmistakably ROOTS. From the colourway to the laces, to the zippers shaped like an offshore drillhead (it is our heritage, after all), there's something to love in every model.

Not bad for something that started as a side project, now standing firmly on its own.





RO60303

IOWA S3 SRC ESD

| Colours | Sizes |
|-----------------------------------|---------------------------------|
| ■ Black | EU 36 - 48 UK 3.5 - 13 |
| Boot Height | Toecap |
| 9" | Multi-layer fiber glass 200J |
| Midsole | Sole |
| Anti-perforation PU midsole S3 | 2-density PU |
| Heat Resistant sole | Scuff cap |
| Up to 130°C | Direct injected PU |

EN ISO 20345:2011
S3 SRC



RO60307

JUMANO S3 ESD

| Colours | Sizes |
|-----------------------------------|---------------------------------|
| ■ Black | EU 36 - 48 UK 3.5 - 13 |
| Boot Height | Toecap |
| 9" | Multi-layer fiber glass 200J |
| Midsole | Sole |
| Anti-perforation PU midsole S3 | 2-density PU |
| Heat Resistant sole | Scuff cap |
| Up to 130°C | Direct injected PU |

EN ISO 20345:2011
S3 SRC



RO60301

MOHAWK S3 SRC ESD

| Colours | Sizes |
|-----------------------------------|---------------------------------|
| ■ Black | EU 36 - 48 UK 3.5 - 13 |
| Boot Height | Toecap |
| 6" | Multi-layer fiber glass 200J |
| Midsole | Sole |
| Anti-perforation PU midsole S3 | 2-density PU |
| Heat Resistant sole | Scuff cap |
| Up to 130°C | Direct injected PU |

EN ISO 20345:2011
S3 SRC



RO60304U

CHEROKEE S3L SR WR

| Colours | Sizes |
|---|---------------------------------|
| ■ Black | EU 38 - 48 UK 5 - 13 |
| Boot Height | Toecap |
| 9" | Fiber glass |
| Midsole | Sole |
| White layer Anti-perforation textile | PU/PU Outsole PU/Mesh Insole |
| Heat Resistant sole | Scuff cap |
| Up to 110°C | Direct injected PU |

EN ISO 20345:2022 S3L
SR WR



ROOTS MULTI LAYERED ARC TESTING RESULTS

The winning combination

Earlier in this catalogue, we explained the principles behind arc layering, and how combining layers of garments can dramatically increase protection levels.

ROOTS has taken this concept further by testing a bunch of real-world garment combinations, providing the exact data on how different layers work together and the exact protection they can provide.

HOW DOES IT WORK?

The following pages present the layered arc results in a clear, visual way. In the top left of the page you'll see exactly which combination you can make within the ROOTS range, and what combined protection values (ELIM, ATPV, EBT50) they deliver when tested as a layered system.

Each section illustrates the layering step by step: evidence links certain PFAS to serious health concerns, including impacts on the immune system, hormonal disruption, and potential cancer risks. As an example, the Softshell+Waterproof on the shows the combination of, as the name suggests, the combination of softshell and waterproof tested as a layered system.

Layer 1 shows the available garments for that layer (for example: softshell). Each garment is displayed with its individual arc test values.

Layer 2 (and beyond) shows the next protective layer (e.g. waterproof), again with its individual results.

For two-layer combinations, each pairing is shown on a single page.

For three- and four-layer systems, the layout expands to a two-page spread, showing all contributing layers and their shared test results.

The combined result boxes display the tested ELIM, ATPV, and EBT50 values for the full system, along with the total fabric weight (g/m²).

Arrows and annotations indicate how garments can be combined

"Combine this + and this → for a layered result of.."

Together, these pages provide a complete overview of ROOTS' layered arc protection showing not just what each garment can do on its own, but how they perform together to boost your performance to new heights.

TOP OF THE TABLE

ROOTS ARC RATINGS

As we said previously, we do a lot of thesting. This testing gives us is data, which we've presented in the table to the right. Every ROOTS fabric we use, listed with its weight, its weight when layered, and the arc performance it actually delivers. You'll see the individual ELIM, ATPV, EBT50 and APC scores, followed by the tested results of the various layered systems.

Nothing theoretical, nothing assumed, just the numbers as they came out of the lab. If you want to know what a fabric does on its own, what it does when you pair it with another, or how a full system stacks up, it's all here. Simple to read, easy to compare, and very much in line with how we do things: tested properly, reported plainly.

For a clearer overview of the layered combinations, see the following pages.

| FABRIC REFERENCE | FABRIC WEIGHT G/M2 | ELIM CAL/CM2 | ATPV CAL/CM2 | EBT50 CAL/CM2 | APC CLASS 1 = 4 KA CLASS 2 = 7 KA |
|--|--------------------|--------------|--------------|---------------|-----------------------------------|
| ARCF350 hisiv orange | 350 | 7,5 | 10 | 8,9 | |
| ARCF350 navy | 350 | 17 | 18 | 20 | |
| AWP | 230 | 6.1 | 11 | 6.5 | 1 |
| AWP + Nomex FR120 | 350 | 21 | 27 | | 2 |
| AWP + Nomex FR120 + SPV260 | 610 | 49 | 51 | | |
| AWP + Nomex FR120 + Softshell | 700 | 46 | 63 | 55 | |
| AWP + FLC320 + FR Underwear (CN) | 760 | 49 | 53 | | |
| AWP + Softshell + SPV260 + FR Underwear (CN) | 1260 | 77 | 83 | | |
| AWP + Nomex FR120 + Softshell + SPV260 | 960 | 76 | 85 | 85 | |
| FB2 250 | 250 | 9.2 | 10.1 | | 1 |
| FLA185 + FR winter liner + FLA185 | 370 | 21.1 | 23.1 | | |
| FLC205 | 205 | 4.6 | 5.4 | | |
| FLC250 | 250 | 5.3 | 6.5 | | |
| FLC320 | 320 | 9.7 | 10.2 | | 1 |
| FLC320 + FLA185 | 505 | 14.8 | 26.8 | | 2 |
| FLC320 + FLC320 | 640 | 42 | 46 | | |
| FLC320 + FR Underwear (CN) | 530 | 42 | 48 | 44 | |
| FLC320WP + FLA185 | 505 | 33.6 | 45.6 | | 2 |
| FLC350 | 350 | 7.4 | 8.1 | | 1 |
| FLC380 | 380 | 10 | 13 | | 1 |
| FLC440 | 440 | 16.8 | 18.0 | | 1 |
| FR Poloshirt | 260 | 5.8 | 6.6 | | 1 |
| FR Softshell | 560 | 15.2 | 18.2 | | 1 |
| FR Sweatshirt | 365 | 10.1 | | 11.9 | 1 |
| FR Underwear (CN) | 210 | 5.9 | | 6.5 | |
| Hepta C6 7915 | 240 | 6.4 | | 8.1 | 1 |
| Kermel Alpha 4975 | 230 | | 9.3 | | 1 |
| MCX200R | 200 | 4.2 | 7.2 | | |
| MCX240R | 240 | 9.2 | 11.0 | | 1 |
| SBCWP + FLA185 | 435 | 16.6 | 25.9 | | |
| SPV260 | 260 | 9.3 | 7.3 | | 1 |
| SPV260 + FR Underwear (CN) | 470 | 24 | 29 | 31 | |
| Textreme 89416 | 320 | 6.8 | 9.1 | | 1 |
| Textreme 89416 + Hepta C6 7915 | 560 | 6.4 | 8.1 | | 1 |
| Textreme 89416 + Kermel Alpha 4975 | 550 | 6.8 | 9.1 | | 1 |
| Textreme 89420 | 260 | | 8.4 | | 1 |
| Textreme 89420 + Kermel Alpha 4975 | 490 | | 8.4 | | 1 |
| Xtreme 170 | 170 | 3.4 | | 4.7 | |
| Xtreme 250 | 250 | 7.0 | | 7.4 | 1 |
| Xtreme 310 | 310 | 8.3 | | 9.6 | 1 |

TURN PAGE FOR THE LAYERED COMBINATIONS 

LIGHTWEIGHT+WATERPROOF

Open Arc Multi Layered Test Result.

COMBINE THIS



LAYER

1

ARCBUSTER LIGHTWEIGHT

Individual ARC score: ELIM 6.8 cal / ATPV 7.0 cal

RO57095LW & RO57095LWF - Coverall
RO57295LW & RO57295LWF - Jacket
RO57295 & RO57295F - Trousers

LAYER

2

ARCBUSTER WATERPROOF

Individual ARC score: ELIM 21 cal / ATPV 27 cal

RO5518 & RO5518F - Parka
RO5527 & RO5527F - Bib
RO5519 & RO5519F - Parka
RO5512 - Coverall

 ELIM

49 cal/cm²

 ATPV

51 cal/cm²

 WEIGHT

610 g/m²

WITH THIS



FOR LAYERED
RESULT OF



SOFTSHELL+WATERPROOF

Open Arc Multi Layered Test Result.

COMBINE THIS



LAYER

1

SOFTSHELLS

Individual ARC score: ELIM 15.2 cal / ATPV 18.2 cal

RO31697 & RO31697F - Jacket
RO37790 & RO37790F - Jacket
RO37890 & RO37890F - Jacket
RO37760 - Jacket

WITH THIS



LAYER

2

ARCBUSTER WATERPROOF

Individual ARC score: ELIM 21 cal / ATPV 27 cal

RO5518 & RO5518F - Parka
RO5527 & RO5527F - Bib
RO5519 & RO5519F - Parka
RO5512 - Coverall

 **ELIM**

46 cal/cm²

 **ATPV**

63 cal/cm²

 **EBT50**

55 cal/cm²

 **WEIGHT**

700 g/m²



FOR LAYERED
RESULT OF

FR UNDERWEAR+FLAMEBUSTER2+WATERPROOF

Open Arc Multi Layered Test Result.



LAYER

1

FR UNDERWEAR

Individual ARC score: ELIM 5.9 cal / EBT50 6.5 cal/cm²

- R035100 & R035100F** - Long Sleeve T-shirt
- R035120 & R035120F** - Long John
- R035300 & R035300F** - Polo shirt

COMBINE THIS



LAYER

2

FLAMEBUSTER2

Individual ARC score: ELIM 9.7 cal / ATPV 10.2 cal

- R022167** - Jacket
- R022267** - Trousers
- R023095 & R023095F** - Coverall
- R023190** - Jacket
- R023295** - Trousers
- R023395** - Bib
- R022367** - Bib
- R022297** - Trousers



WITH THIS

LAYER

3

ARCBUSTER WATERPROOF

Individual ARC score: ELIM 21 cal / ATPV 27 cal

- R05518 & R05518F** - Parka
- R05527 & R05527F** - Bib
- R05519 & R05519F** - Parka
- R05512** - Coverall



↪ AND THIS

 **ELIM**

49 cal/cm²

 **ATPV**

53 cal/cm²

 **WEIGHT**

760 g/m²

↪ FOR LAYERED
RESULT OF

FR UNDERWEAR+LIGHTWEIGHT+SOFTSHELL+WATERRPOOF

Open Arc Multi Layered Test Result.

LAYER

1

FR UNDERWEAR

Individual ARC score: ELIM 5.9 cal / EBT50 6.5 cal/cm²

RO35100 & RO35100F - Long Sleeve T-shirt

RO35120 & RO35120F - Long John

RO35300 & RO35300F - Polo shirt



COMBINE THIS 

LAYER

2

ARCBUSTER LIGHTWEIGHT

Individual ARC score: ELIM 6.8 cal / ATPV 7.0 cal

RO57095LW & RO57095LWF - Coverall

RO57295LW & RO57295LWF - Jacket

RO57295 & RO57295F - Trousers



 WITH THIS

AND THIS 



LAYER

3

SOFTSHELLS

Individual ARC score: ELIM 15.2 cal / ATPV 18.2 cal

- RO31697 & RO31697F - Jacket
- RO37790 & RO37790F - Jacket
- RO37890 & RO37890F - Jacket
- RO37760 - Jacket

LAYER

4

ARCBUSTER WATERPROOF

Individual ARC score: ELIM 21 cal / ATPV 27 cal

- RO5518 & RO5518F - Parka
- RO5527 & RO5527F - Bib
- RO5519 & RO5519F - Parka
- RO5512 - Coverall



AND FINALLY THIS 

 ELIM

77 cal/cm²

 ATPV

83 cal/cm²

 WEIGHT

1260 g/m²

 FOR LAYERED
RESULT OF

LIGHTWEIGHT+SOFTSHELL+WATERPROOF

Open Arc Multi Layered Test Result.

LAYER

1

ARCBUSTER LIGHTWEIGHT

Individual ARC score: ELIM 6.8 cal / ATPV 7.0 cal

RO57095LW & RO57095LWF - Coverall

RO57295LW & RO57295LWF - Jacket

RO57295 & RO57295F - Trousers



COMBINE THIS 

LAYER

2

SOFTSHELLS

Individual ARC score: ELIM 15.2 cal / ATPV 18.2 cal

RO31697 & RO31697F - Jacket

RO37790 & RO37790F - Jacket

RO37890 & RO37890F - Jacket

RO37760 - Jacket



 WITH THIS

LAYER

3

ARCBUSTER WATERPROOF

Individual ARC score: ELIM 21 cal / ATPV 27 cal

- R05518 & R05518F** - Parka
- R05527 & R05527F** - Bib
- R05519 & R05519F** - Parka
- R05512** - Coverall



↖ AND THIS

 **ELIM**

76 cal/cm²

 **ATPV**

85 cal/cm²

 **EBT50**

85 cal/cm²

 **WEIGHT**

960 g/m²

↖ FOR LAYERED
RESULT OF

FR UNDERWEAR+LIGHTWEIGHT

Open Arc Multi Layered Test Result.

COMBINE THIS



LAYER

1

FR UNDERWEAR

Individual ARC score: ELIM 5.9 cal / EBT50 6.5 cal/cm²

RO35100 & RO35100F - Long Sleeve T-shirt

RO35120 & RO35120F - Long John

RO35300 & RO35300F - Polo shirt

RO35400 - Snood

RO35700 - Hijab

RO35500 - Balaklava

LAYER

2

ARCBUSTER LIGHTWEIGHT

Individual ARC score: ELIM 6.8 cal / ATPV 7.0 cal

RO57095LW & RO57095LWF - Coverall

RO57295LW & RO57295LWF - Jacket

RO57295 & RO57295F - Trousers



 **ELIM**

24 cal/cm²

 **ATPV**

29 cal/cm²

 **EBT50**

31 cal/cm²

 **WEIGHT**

470 g/m²



WITH THIS
FOR LAYERED
RESULT OF

FR UNDERWEAR+FLAMEBUSTER2

COMBINE THIS

Open Arc Multi Layered Test Result.



LAYER

1

FR UNDERWEAR

Individual ARC score: ELIM 5.9 cal / EBT50 6.5 cal/cm²

- RO35100 & RO35100F** - Long Sleeve T-shirt
- RO35120 & RO35120F** - Long John
- RO35300 & RO35300F** - Polo shirt
- RO35400** - Snood
- RO35700** - Hijab
- RO35500** - Balaklava

LAYER

2

FLAMEBUSTER2

Individual ARC score: ELIM 9.7 cal / ATPV 10.2 cal

- RO22167** - Jacket
- RO22267** - Trousers
- RO23095 & RO23095F** - Coverall
- RO23190** - Jacket
- RO23295** - Trousers
- RO23395** - Bib
- RO22367** - Bib
- RO22297** - Trousers



 **ELIM**

42 cal/cm²

 **ATPV**

48 cal/cm²

 **EBT50**

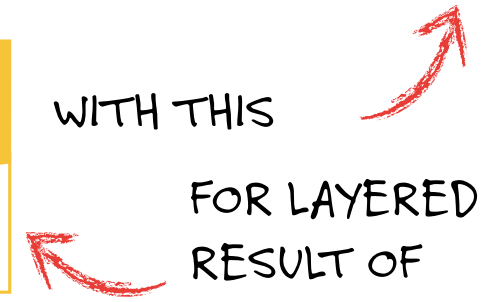
44 cal/cm²

 **WEIGHT**

530 g/m²

WITH THIS

FOR LAYERED
RESULT OF









COME HOME SAFE

CONTACT INFORMATION

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