



EUROX

**EUROX**

**Catalogue**  
2024

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**NOW AVAILABLE!!!**

**NEW PRODUCT**

**EUROX**



## **SPECIFICATIONS**

- MULTI-DIMENSIONAL LIGHT-WEIGHT
- STRETCH FABRIC INCREASING COMFORT AND MOBILITY
- IMPROVED DURABILITY
- SEGMENTED HEAT APPLIED REFLECTIVE TAPE
- MULTI-FUNCTIONAL LOWER SIDE PATCH
- POCKET WITH FLAPS
- ZIP FASTENED HIDDEN MOBILE PHONE/ GLASSES POCKET
- FUNCTIONAL BACK-POCKET
- HIGH RISE ELASTICATED WAISTBAND FOR ADDITIONAL COMFORT
- BALLISTIC PANELS





**Established in 1985, Future Garments Ltd, T/A as Eurox are seasoned designer, manufacturer, importer, stockist, and fully managed service provider of Workwear, Corporate Wear, and Personal Protective Equipment. The group philosophy revolves around challenging the status quo, nurturing innovative design, and prioritising user-friendly products in everything we create. Critical to our ethos is a customer-centered approach, built on openness, honesty, and the imperative of earning your trust and confidence in our capabilities**



# EUROX

## ABOUT EUROX

**The professional PPE specialists delivering cost effective solutions for all your company's safety & PPE needs.**

**Eurox is a global designer, manufacturer and supplier of workwear, corporate wear and personal protective equipment. We specialise in the manufacture of cotton, poly-cotton, Ripstop Nylon, FR and anti-static garments into utilities, oil & gas, transport, civil and heavy engineering to name a few. We offer a fully managed service from design concept through manufacturing in our own "state-of-the-art" manufacturing facilities based in Asia. Eurox is committed to providing the best possible service to all its customers. We hope that you enjoy browsing our new catalogue and if you have any questions, please do not hesitate to give one of our team members a call.**

### **National Distribution Centre (NDC)**

Our 4.5 acre NDC storage facility & specialist corporate wear & embroidery department. Offering an "in house" QC & technical center of excellence that ensures all approved products are for fit purpose first time, every time.

### **Health & safety, PPE manufacturing specialists**

With over 30 years experience in the manufacture of class leading PPE, Future Garments have been established as one of the foremost PPE distributors within the UK. Health & safety equipment is by definition extremely specialist and it is critical to ensure that all products purchased meet the necessary statutory approvals, are appropriate for the application, and are backed up by a dedicated manufacturing supplier who is able to give appropriate advice and full technical support. Future Garments deliver all these benefits to your business.


### **One-stop work wear, corporate wear & PPE supply**

Within our catalogue and website you will find a product solution for every application and budget. Leading with our own "ground breaking" ranges of multi risk apparel, corporate wear, work wear and complete head to toe range of PPE, which features many new "innovative" products for 2017. At future garments we have gained the enviable reputation of being pioneers and innovators of head to toe PPE solutions, why not ask one of our highly qualified operators about the new products we are launching in our 2017 catalogue.

### **Full support & technical assistance**

Our internal and external sales professionals are always on hand to provide you with appropriate advice and help on any health & safety matter. In addition Future Garments are one of a select few companies which have a UK technical centre of excellence and laboratory. Our technical director sits on several UKAS committee's which have direct involvement in new standards and ISO requirements.





As a leading provider of high-quality PPE, workwear, and safety solutions, we are committed to protecting those who power the world's most demanding industries. Our catalogue represents a culmination of decades of expertise, innovation, and a relentless commitment to excellence. Whether you're outfitting a small team or a large workforce, you'll find a diverse range of products designed to meet the highest standards of safety, comfort, and durability. Explore our offerings and discover why Eurox is the trusted choice for businesses across the globe.

### **Next Day Delivery:**

In partnership with Fed-Ex, one of the UK's leading logistic company's with full international coverage and over 2,000 vehicles, we offer a next day nationwide delivery service for all stocked products ordered before 3pm. In addition to this, Future Garments offer excellent "on-line" tracking and proof of delivery services.

### **24/7 Emergency Supplies:**

Future Garments offer a full 24/7 out of hours emergency service for customers requiring this facility. This will be supplied via our own emergency courier team.

### **Wearer Matrix:**

Future Garments can provide a wealth of meaningful management information to suit our customers needs and expectations. In addition Future Garments can create a bespoke wearer matrix which will provide additional information and give greater control of usage and product replenishment. It will also provide company issue listings, life cycle and advance notification of special measures.

### **Consignment Stock & Inventory elimination:**

Our multi faceted MRP systems allow Future Garments to fully leverage consignment stocks within our customers business operations. By controlling high volume, low value items in this way, it gives Future Garments's customers greater control of usage costs and significantly reduces transactional overhead at the same time as reducing our customers inventory to a minimum.

### **Garment Alterations:**

Through Future Garments's "in house" manufacturing and finishing operations based in the Midlands, Future Garments can offer a full garment alteration and repair service. This can also

extend to the provision of "special measures" demanded by many of our discerning clients.

### **Laundry Services:**

Future Garments has developed in partnership with several well know high profile laundry companies and fully integrated wet wash or dry cleaning facility. This facility has been well proven in many industry segments and involves garments to be collected, laundered and returned, under a well documented traceable quality system.

### **Sample Sizing Sets:**

Future Garments can provide full "on site" sampling sets for our customers employees to self measure against. In addition to this, through our online IT system, our customers can download a series of documents which are self explanatory and easy to compile, allowing special measures and unusual sizing to be exported directly to our manufacturing division in "real time". This drastically reduces the lead times required for manufacture.

### **Garment Decoration:**

We are able to provide a fully managed in-house branding service including; Embroidery/ Heat Applied Transfers/ Screen Printing/Tax tabs. Our dedicated in-house branding team are able to brand garments with our hi-tech machinery and our brand digitisers. To find out more please do not hesitate to contact us.

### **Merchants & Wholesalers:**

Future Garments provide a series of pre packed PPE products and personalised branded products to support merchants and wholesalers. All PPE provided is under discrete branding or even customers "own brand", if required.

## PRODUCT RANGE



### Hi-Visibility and Rail Clothing

As one of the UK's leading manufacturers of EN471 garments, Future Garments offer a wide range of options in the Hi Visibility and Rail Clothing range, using the latest performance fabrics in the market. All Rail Clothing meets the RIS-3279-TOM and Rail track standards.



### Eye and Face Protection

Future Garments manufacture a comprehensive range of eye and face protectors all meeting standard EN166. The range includes goggles, safety spectacles, over spectacles and face shields. A prescription service for corrective lenses is also available.



### Outerwear

This extensive range of clothing is made up of our leading in house manufactured brands, from high performance garments to protective overall's, thermal and interactive garments. Future Garments offers outerwear for all climates.



### Respiratory Protection

Our respiratory range caters for all five forms of hazard; dust, mists, fumes, gases and vapours. Disposables, masks, cartridges and powered air respirators are manufactured to the latest European Standards.



### Work Wear

Future Garments offer a complete range of durable and comfortable work wear from industrial environments garments to office wear. Providing a choice of styles allowing you to be flexible with your choice.



### Hand Protection

Future Garments manufactures a comprehensive range of hand protection from simple category 1 handling gloves through to complex category 3 heat and high cut protection gauntlets. All products supplied fully conform to the very latest European norms and mechanical tests.



### Helmets

Future Garments manufacturer a stylish range of safety helmets. All products are approved to EN397 and with a choice of up to 3 different colours. In addition to this a full range of accessories are available.



### Footwear

We have a vast choice from Safety Footwear all conforming to EN ISO 20345 with options to suit any working environment.

## OUR BRANDS



### **AQUA Classics**

Economy range of high Visibility PPE



### **Trakman**

Our Trakman range will ensure you a stylish and professional look



### **FGX**

Premium range of high Visibility PPE



### **Mistrale**

High end range of respiratory protection



### **AQUA Ladies**

Our brand NEW & swiftly expanding high visibility PPE range for ladies



### **VA**

Premium footwear



### **AQUA FR**

Premium range of treated flame retardant wear



### **Titan**

High quality range of foot wear



### **AQUA work wear**

High quality premium range of work wear



### **Phoenix-FR®**

High quality premium range of inherently flame retardant wear



### **AQUA Sportswear**

NEW range of sports/active wear



### **Rhino-Tec®**

Choose Rhino-Tec® for your all your hand protection & welding needs

## KEY SYMBOLS



REFLECTIVE



ANTI-STATIC



CONTRAST  
COLOUR



DETACHABLE  
HOOD



DURABLE



WIND  
RESISTANT



WATERPROOF



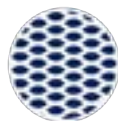
LADIES  
FIT



LIGHTWEIGHT



MOBILE  
POCKET



VENTED



WELDING



WICKING  
TECHNOLOGY



FLAME  
RETARDANT



BREATHABLE



STRETCH



REVERSIBLE



KNEE PAD  
ACCESS



MULTI  
POCKETS



INTERACTIVE



ID POCKET



UV PROTECTION



PROVIDES  
WARMTH



COLOUR  
PALETTE



ACTION  
BACK

## WASH CARE SYMBOLS



DO NOT WASH



30°C WASH



40°C WASH



50°C WASH



DO NOT DRY CLEAN



PROFESSIONAL DRY CLEAN



DO NOT BLEACH



DO NOT TUMBLE DRY



LOW TUMBLE DRY



MEDIUM TUMBLE DRY



LINE DRY



DO NOT IRON



LOW IRON



MEDIUM IRON



## HAND PROTECTION SYMBOLS



ABRASION  
RESISTANT



CUT  
RESISTANT



TEAR  
RESISTANT



PUNCTURE  
RESISTANT

## SAFETY FOOTWEAR SYMBOLS



ANTI  
STATIC



RESISTANCE  
TO PERF



IMPACT  
RESISTANCE



WATER  
REPELLENT



SLIP  
RESISTANCE



OIL  
RESISTANCE



ENERGY  
ABSORPTION



DUAL  
DENSITY SOLE

## COLOUR SWATCHES

005 - Black



029 - Royal



044 - Green



219 - Silver



006 - Bottle Green



031 - Sky Blue



045 - Blue



228 - Charcoal/Black



009 - Burgundy



033 - White



101 - Shapphire



255 - Black/Yellow



010 - Charcoal



034 - Yellow



208 - Orange/Navy



274 - Red/Grey



019 - Kelly Green



036 - Tan



209 - Yellow/Green



282 - Tan/Grey



024 - Navy



037 - Grey



211 - Yellow/Navy



283 - Tan/Silver



026 - Orange



041 - Clear



216 - Grey/Black



287 - Tan/Black



028 - Red



043 - Smoke



217 - Gold/Black



293 - Yellow/Red





**O**ur range of premium & basic high visibility work wear has been designed to provide all round protection, ensuring you are seen in all lighting conditions guaranteeing safety in any working environment, as well as ensuring you are protected in all weather conditions.

From our basic over trousers to our highly spec'd cargo trousers you will find all the high visibility garments you require here.

We are continually developing & improving our garments to enhance the standard of our PPE yet still ensuring that safety conformance standards are to the very latests EN and ISO international standards.

# HIGH VISIBILITY

## STANDARDS EXPLAINED



### EN ISO 20471:2013 - New High Visibility Standard

EN ISO 20471:2013 specifies requirements for high visibility clothing which is capable of visually signalling the user's presence. The high visibility clothing is intended to provide conspicuity of the wearer in any light condition when viewed by operators of vehicles or other mechanized equipment during daylight conditions and under illumination of headlights in the dark. Performance requirements are included for colour and retro reflection as well as for the minimum areas and for the placement of the materials in protective clothing.

This revised standard is intended to encompass most of the previous 2003 requirements while allowing for more "Corporate" styling without reducing personal safety. For example retro-reflective tape can be positioned at angles +/- 20degrees. Garments tested to EN471:2003 can continue to be sold however any new design must be tested to the revised standards.



### EN471 - Specification for High Visibility Clothing

There are 3 classes of garment type based on the levels of conspicuity they provide, with the classes dictating the minimum quantities of background and retro reflective materials to be used. On all garments the retro-reflective tape must not be less than 50mm wide.

#### Class 3:

- Highest level of conspicuity
- Minimum background material 0.80m<sup>2</sup>
- Minimum retro-reflective material 0.20m<sup>2</sup> I.e. Jackets or coveralls with sleeves to be worn in accordance with Clause 4.2.4 and to Class 3 on dual carriageway roads with a speed limit of 50mph or above

#### Class 2:

- Minimum background material 0.50m<sup>2</sup>
- Minimum retro-reflective material 0.13m<sup>2</sup>

#### Class 1:

- Minimum background material 0.14m<sup>2</sup>
- Minimum retro-reflective material 0.10m<sup>2</sup> I.e. Minimal risk such as off road activities



### EN343:2003 – Protection against Rain

This standard specifies the requirements for protective clothing against the effects of foul weather (rain, wind and snowflakes). Garments according to this standard often also offer protection against cold and therefore follow the EN342 standard and have corresponding markings. It also happens to be that protection against rain and visibility needs are needed in the same garment.

The requirements of the EN343 Include:

- Water resistance
- Moisture, vapour and perspiration or 'breathability' of the garment
- Strength of garment components – tensile, tear, seam strength and shrinkage



### GO/RT 3279 REPLACED WITH RIS-3279-TOM

GO/RT 3279 is the standard produced by The Railway Group for the minimum requirements for high visibility clothing, to ensure people are conspicuous when working on or near railway tracks. The standard tries to ensure that clothing worn by workers on or near railway tracks should conform to a single standard for the colour and luminance of background material, and should conform to a single standard for the photometric and physical performance of retro reflective material to aid conspicuousness in darkness or poor visibility.

All Future Garments products certified to GO/RT 3279 will meet the requirements of the new Rail Industry Standard (RIS-3279-TOM).

# AQUA CLASSIC

HIGH VISIBILITY



JK930-0000-034



JK930-0000-026

Sizes available: SML- 6XL



## Aqua Classic Hi-Vis Bomber Jacket



- Polyester with PU coating fabric.
- 300D outer waterproof polyester fabric.
- Fully seam sealed waterproof jacket.
- Quilted inner lining provided extra warmth.
- Concealed hood within the stand up collar.
- Half elasticated cuffs with touch & close fastening for adjustment.
- Two jetted inset outer pockets.
- Elasticated side at hem for comfort.
- Concealed zip front fastening.
- Front storm flap with Aqua embellished studs.



EN343:2003+A1:2007



BS EN ISO 20471:2013  
Conforms to  
RIS-3279-TOM



BS EN ISO 20471:2013

**Conforms to:** BS EN ISO 20471:2013 Class 3, BS EN343:2003+A1:2007 Class 3:1 & Orange also Conforms to: RIS-3279-TOM



JK003-0000-026



JK003-0000-034

Sizes available: SML- 6XL



## Aqua Classic High Visibility Waterproof Jacket



- Polyester with PU coating fabric.
- Fully seam sealed waterproof jacket.
- Quilted inner lining provided extra warmth.
- Front storm flap with Aqua embellished studs.
- Fold away hood with touch & close fastening to conceal into collar.
- Two front patch pockets.
- Internal patch pocket.
- Inner knitted storm cuffs.



BS EN ISO 20471:2013



BS EN ISO 20471:2013  
Conforms to  
RIS-3279-TOM



EN343:2003+A1:2007

**Conforms to:** BS EN ISO 20471:2013 Class 3, BS EN343:2003+A1:2007 Class 3:1 & Orange also Conforms to: RIS-3279-TOM



TR368-0000-026

Sizes available: SML- 4XL



## Aqua Classic Hi-Vis Over-Trouser



- 300D Outer polyester waterproof fabric.
- All trouser seams are sealed.
- Two reflective bands on each leg.
- Elasticated waist band.
- Two front jetted pockets.
- Adjustable stud fastening at hem with Aqua embellished studs.



EN343:2003+A1:2007



BS EN ISO 20471:2013  
Conforms to  
RIS-3279-TOM



BS EN ISO 20471:2013

**Conforms to:** BS EN ISO 20471:2013 Class 1, BS EN343:2003+A1:2007 Class 3:1 & Orange also Conforms to: RIS-3279-TOM



TR368-0000-034



## AQUA CLASSIC

HIGH VISIBILITY



**JK006-0000-034**



**JK006-0000-026**



**WC002-0000-026**



**WC002-0000-034**

Sizes available: SML- 5XL



### Aqua Classic Hi-Vis Light Weight Mesh Jacket



- Polyester knitted fabric.
- Lightweight garment.
- Touch & close front fastening.
- Bound edge with polyester binding.

**Conforms to:** BS EN ISO 20471:2013 Class 3 & Orange  
also  
Conforms to RIS-3279-TOM



Sizes available: SML- 5XL



### Aqua Classic Hi-Vis Mesh Waistcoat



- Polyester lightweight mesh waistcoat.
- Two reflective tapes to body and shoulders.
- Complete outer edge is bound in grey contrast binding.
- Front touch & close fastening.

**Conforms to:** BS EN ISO 20471:2013 Class 2 & Orange  
also Conforms to RIS-3279-TOM



Sizes available: SML- 6XL



### Aqua Classic Short Sleeve Hi-Vis Polo Shirt



- Polyester Bird Eye knit fabric.
- Two body and Shoulder bands.
- Navy contrast knitted collar & cuffs.
- Front 3 button placket.

**Conforms to:** BS EN ISO 20471 Class 2, BS EN 340 & Orange  
also Conforms to: RIS-3279-TOM.



**PS009-0000-026**

**PS009-0000-034**

## AQUA CLASSIC

HIGH VISIBILITY



PS010-0000-034

Sizes available: SML- 4XL



### Aqua Classic Long Sleeve Hi-Vis Polo Shirt

- Polyester Bird Eye knit fabric.
- Two body, sleeves and shoulder bands.
- Navy contrast knitted collar & cuffs.
- Front 3 button placket.

**Conforms to:** BS EN ISO 20471 Class 3, BS EN 340 & Orange also Conforms to: RIS-3279-TOM.



PS010-0000-026



TS178-0000-026

Sizes available: SML- 4XL



### Aqua Classic Hi-Vis T-Shirt

- 100% Polyester, Bird eye knit 170gsm.
- CE certified.
- Breathable fabric to draw moisture away from the bodykeeping the wearer cool, dry and comfortable.
- Reflective tape for increased visibility.
- 50+UPF rated fabric to block 98% of UV rays.
- Generous fit for wearer comfort.
- Available from size XS.
- Available in sizes up to 5XL.
- Quality wicking fabric finish enhances fabric drying and aids stain removal.

**Conforms to:** BS EN ISO 20471 Class 2, ANSI/ISEA 107-2015 TYPE R CLASS 2; AS/NZS 4602.1:2011 Class D/N; BS EN ISO 20471 Class 2, Orange also meets RIS-3279-TOM ISSUE 1.



TS178-0000-034



BW492-0000-034

Sizes available: SML- 4XL



### Aqua Classic Hi-Vis Bodywarmer

- 300D HV 100% polyester with PU coating
- Reversible garment
- 2 inset pockets with flaps
- Knitted collar
- Premium navy microfibre double stitched lining
- Body bands front and back
- Shoulder bands front and Back

**Conforms to:** BS EN ISO 20471 Class 3 RIS-3279-TOM (orange only) and ANSI/ISEA 107 Class 3:2; RIS-3279-TOM ISSUE 1 (ORANGE ONLY) BS EN ISO 20471 Class 3 RIS-3279-TOM



BW492-0000-026

## AQUA CLASSIC

HIGH VISIBILITY



**JK161-0000-026**



**JK004-0000-034**

Sizes available: XS- 7XL



### Aqua Classic Hi-Vis Jacket



- Lightweight unlined aquathane jacket.
- High frequency welded seams.
- Magyar style sleeves with inner storm cuffs.
- Double stormflap with zip and stud front and under placket.
- Angled shaped front pockets.
- Fold away hood with touch & close fastening to conceal into collar.
- Two reflective tapes to body, shoulders and arms.



**Conforms to:** BS EN471 Class 3;2, BS EN 340, BS EN343 Class 3:2

# AQUA CLASSIC

HIGH VISIBILITY



TR173-0000-026

Sizes available: XS- 7XL



## Aqua Classic Over-Trouser



- Lightweight unlined over-trouser.
- Manufactured from Aquathane waterproof fabric.
- Fully elasticated waist providing comfort for the wearer.
- Internal waist draw cord allowing the wearer to adjust the waist.
- Adjustable stud fastening at hem.
- Two lower leg reflective bands.



**Conforms to:** BS EN471 Class 1:2 & BS EN343:2003 Class 3:2



TR022-0000-034



TR605-0000-026

Sizes available: SML- 4XL



## Aqua Classic Breathable Trouser



- 300D Twill weave waterproof & breathable outer fabric.
- Fully elasticated waist.
- Two side access hip pockets.
- One back pocket with touch and close fastening.
- Side leg adjustment with touch and close fastening.



**Conforms to:** BS EN ISO 20471:2013 Class 1, BS EN343:2003+A1:2007 Class 3:3 & Orange also Conforms to: RIS-3279-TOM.



TR605-0000-034



# AQUA CLASSIC

HIGH VISIBILITY



**SS001-0000-034**



**SS001-0000-026**



**FJ077-0000-034**



**FJ077-0000-026**

Sizes available: SML- 4XL



## Aqua Classic Hi- Vis Quater Zip Sweat Shirt

- Premium polyester cotton brushed fabric.
- BS EN ISO 20471 reflective tape configuration.
- Navy contrasted knitted rib cuffs and hem.
- Navy contrast ribbed collar with front self fabric panels.
- Concealed front zip.



**Conforms to:** BS EN ISO 20471:2013 Class 3, BS EN 340. Orange also Conforms to: RIS-3279-TOM



Sizes available: SML- 4XL



## Aqua Classic Hi-Vis Fleece

- Heavy weight polyester micro fleece outer fabric.
- Stand up collar.
- Zip fastened front to the top of the collar.
- BS EN ISO 20471 reflective tape configuration.
- Elasticated cuffs with draw cord adjustable hem.
- Two out side zip opening inset pockets.
- Interactive with JK525 outer jacket.



**Conforms to:** BS EN ISO 20471:2013 Class 3, BS EN 340. Orange also Conforms to: RIS-3279-TOM



**JK154-0000-034**



**JK154-0000-026**

Sizes available: XS- 5XL



## Aqua Classic 3/4 Quarter Sleeve Open Mesh Jacket

- Polyester lightweight mesh jacket.
- Two reflective tapes to body, sleeves and shoulders.
- Complete outer edge is bound in grey contrast binding.
- Front touch & close fastening.



**Conforms to:** BS EN ISO 20471:2013 Class 3



**TR381-0000-211**



**TR381-0000-208**

Sizes available: 28" - 54"  
Available in Short, Regular and Tall



## Aqua Classic Express Cargo Trouser

- Premium poly/cotton cargo trouser.
- Navy contrast at hem and hip pockets.
- Internally elasticated waistband for added comfort.
- Tunnel belt loop at the back of the waistband.
- Concealed front hook & bar fastening with a grown on flap with stud fastening.
- Two rear back pockets.
- Two large cargo pockets to each thigh.
- Right thigh cargo pocket comes with a mobile phone pocket & phone pocket access.
- External knee pad pockets.
- Two reflective bands to each leg.



**Conforms to:** BS EN ISO 20471 Class 1 & Orange version Conforms to: RIS-3279-TOM.



# AQUA CLASSIC



FJ956-0000-026



FJ956-0000-034

Sizes available: 2XS- 6XL



## Aqua Classic Hi-Vis Soft Shell Jacket



- 100% Polyester, 320gsm
- Zip fastening
- Touch & close adjustable cuffs
- Zipped side pockets
- Adjustable drawcord hem



BS EN ISO 20471:2013



BS EN ISO 20471:2013

**Conforms to:** EN ISO 20471:2013 +A1:2016 Class 3,  
Orange also conforms to RIS-3279-TOM ISSUE 2:2019



SS083-0000-026



SS083-0000-034

Sizes available: 2XS- 6XL



## Aqua Classic Hi-Vis Crew Neck Sweat Shirt



- 100% Polyester, 280gsm
- Ribbed hem, cuffs and neck
- Stitched reflective tape



BS EN ISO 20471:2013



BS EN ISO 20471:2013

**Conforms to:** EN ISO 20471:2013 +A1:2016  
Class 3, Orange also conforms to RIS-3279-TOM  
ISSUE 2:2019



TR795-0000-



TR795-0000-034

Sizes Available: 2XS- 6XL



## Aqua Classic Hi-Vis Jogging Trousers



- 100% Polyester, fleece inner
- Elasticated ankles
- Elasticated waistband with internal draw cord
- 2 zipped side welt pockets
- 2 side patch pockets with flap
- 1 Back patch pocket



EN 343:2003+A1:2007



BS EN ISO 20471:2013

**Conforms to:** EN ISO 20471:2013 +A1:2016 Class 2, Or-  
ange also conforms to RIS-3279-TOM ISSUE 2:2019 when  
worn with a class 2 upper garment

## AQUA CLASSIC



TR047-0000-034



TR047-0000-026

Sizes available: 28" - 54"

Available in Short, Regular and Tall



### Aqua Classic Hi-Vis Cargo Trousers



- Premium Poly/cotton cargo trouser.
- Internally elasticated waistband for added comfort.
- Tunnel belt loop at the back of the waistband.
- Concealed front hook & bar fastening with a grown on flap with stud fastening.
- Two rear back pockets.
- Two large cargo pockets to each thigh.
- Right thigh cargo pocket comes with a mobile phone pocket access.
- External knee pad pockets.
- Two reflective bands to each leg.



**Conforms to:** BS EN ISO 20471:2013 Class 1 & Orange also  
Conforms to RIS-3279-TOM

HIGH VISIBILITY



FJ077-0000-034



FJ077-0000-026

Sizes available: SML- 4XL



### Aqua Classic Full Zip Hi-Vis Fleece

- Heavy weight polyester micro fleece outer fabric.
- Stand up collar.
- Zip fastened front to the top of the collar.
- BS EN ISO 20471 reflective tape configuration.
- Elasticated cuffs with draw cord adjustable hem.
- Two out side zip opening inset pockets.
- Interactive with JK525 outer jacket.



**Conforms to:** BS EN ISO 20471:2013 Class 3, BS EN 340.  
Orange also Conforms to: RIS-3279-TOM



TR371-0000-211



TR371-0000-208

Sizes available: 28" - 54"

Available in Short, Regular and Tall



### Aqua Classic Ballistic Cargo Trousers

- Premium Poly/cotton cargo trouser.
- Internally elasticated waistband for added comfort.
- Tunnel belt loop at the back of the waistband.
- Concealed front hook & bar fastening with a grown on flap with stud fastening.
- One rear back pocket.
- One large cargo pockets with a mobile phone pocket access.
- Navy contrast ballistic material.
- Two reflective bands to each leg.



**Conforms to:** BS EN ISO 20471:2013 Class 1 & Orange  
also Conforms to RIS-3279-TOM



# AQUA CLASSIC

HIGH VISIBILITY

Sizes available: S – 4XL



## Aqua Classic Full Zip Hooded Hi-Vis Sweatshirt

- 100% polyester fabric
- 300-320 gsm weight
- Two outside inset pockets with pullers.
- Reflective body tape front and back
- Reflective shoulder tape front and Back
- Front zip fastening with puller
- Navy contrast knitted rib cuffs and hem.
- Navy contrast ribbed collar with front self fabric panels.
- Mesh lined Hood with shock draw strings and toggles

**Conforms to:** EN ISO 20471:2013 Class 3, EN 340.  
Orange also Conforms to: RIS-3279-TOM



SS071-0000-026

SS071-0000-034

Sizes available: M- 6XL



## Aqua Classic Hi-Vis Waistcoat

- Radio loop 7cm by 2.5cm positioned at 45° Angle
- Epaulettes with Press- Stud Fastening
- Centre- Front No.5 Pastic Moulded Zip Front Heat Transfer Badge Positioned Centrally between Tape & Zip 12cm above Tape.
- Front Bellow Patch Pockets c/w Flop with touch & close fastening
- Conforms to:
- EN ISO 20471:2013 + A1:2016
- CLASS 1 & 2
- Orange also Conforms to: RIS-3279-TOM



WC056-0000-034

WC056-0000-026



## AQUA CLASSIC

HIGH VISIBILITY



**FJ075-0000-034**



**FJ075-0000-026**



Sizes available: SML - 4XL



### Aqua Classic Hi Vis Soft Shell Fleece

- Premium tri-laminate RH Twill Fleece soft shell.
- 100% HV polyester.
- 300-320 gsm
- Fleece lined collar for comfort and warmth.
- Grey zip and grey contrast over shoulder.
- Breast pocket flaps and sides
- Two lower pockets with zip fastening.
- Touch & close adjustable cuffs.
- Drawstring hem for an adjustable fitting.
- Reflective piping.



**Conforms to:** BS EN ISO 20471:2013 Class 3 & Orange also Conforms to RIS-3279-TOM

# AQUA CLASSIC

HIGH VISIBILITY



Protection  
UPF 50+

PS020-0000-034



PS020-0000-026

Protection  
UPF 50+

Sizes available: SML- 7XL



## Aqua Premium Hi Vis Polo

### Shirt



- 100% polyester fabric
- Knitted contrast collar
- Knitted contrast cuffs
- 6cm wide reflective tape.
- Heat applied segmented reflected tape



BS EN ISO 20471:2013  
Conforms to  
RIS-3279- TOM

**Conforms to:** BS EN ISO 20471:  
2013 Class 3 Orange also conforms  
to RIS-3279- TOM

# AQUA CLASSIC

HIGH VISIBILITY



PS131-0000-026

PS131-0000-034



Protection  
UPF 50+

Sizes available: SML- 7XL



## Aqua Premium Hi Vis Polo Shirt



- 100% polyester fabric
- Knitted contrast collar
- Knitted contrast cuffs
- 6cm wide reflective tape.
- Heat applied segmented reflected tape



**Conforms to:** BS EN ISO 20471:  
2013 Class 3 Orange also conforms  
to RIS-3279- TOM

# AQUA CLASSIC

HIGH VISIBILITY

JK525-0000-034



JK525-0000-026



Sizes available: XS- 5XL



## Aqua Hi-Vis Ripstop Breathable Jacket

- Polyester with PU coating Ripstop fabric.
- Dense mesh lining for breathability.
- Fully waterproof garment.
- Raised back collar for protection against all weather conditions.
- Adjustable cuffs with touch and close fastening.
- Inner storm cuffs for added protection.
- Stylish shaped front storm flap.
- Lighter weight garment with heat applied reflective tape.
- Ventilation eyelet holes under each arm.
- Draw cord adjustment at waist for comfort and a tighter fit.
- Multi inner pockets including tablet pocket and phone pocket with clear fronts for quick use.
- Retractable ID pocket concealed in outer inset pocket.
- Detachable hood with touch & close fastening to adjust the peak.
- Interactive zip to attach a fleece jacket for added warmth.

**Conforms to:** BS EN ISO 20471:2013 Class 3, BS EN343:2003+A1:2007 Class 3:3 & Orange also Conforms to RIS-3279-TOM

BW484-0000-026

BW484-0000-034

JK527-0000-037

FJ077-0000-026

FJ077-0000-034



Sizes available: XS- 5XL



## Reversible Hi-Vis Ripstop Body warmer

- Polyester with PU coating Ripstop fabric.
- Fleece lined collar for comfort.
- Hi-Vis outer and Navy inner.
- Detachable quilted sleeves for all year round wear.
- Multi pockets for storage.
- Elasticated front hem for added comfort.
- Stud fastening at sides for adjustment.
- Lighter weight garment with heat applied reflective tape.

**Conforms to:** BS EN ISO 20471:2013 Class 2 & Orange also Conforms to RIS-3279-TOM

Sizes available: XXS- 5XL



## Aqua Light Weight Quilted Jacket

- Premium 100% Polyester fabric.
- Light weight garment.
- Interactive zip (Zips into JK525).
- Stylish quilted garment with front and back yoke seams.
- Two front zipped pockets for quick access.
- Kidney warmer at back for comfort.
- Stud adjustment at waist of garment.

Sizes available: SML- 4XL



## Premium Aqua Hi-Vis Fleece

- Heavy weight polyester micro fleece outer fabric.
- Stand up collar.
- Zip fastened front to the top of the collar.
- BS EN ISO 20471 reflective tape configuration.
- Elasticated cuffs with draw cord adjustable hem.
- Two out side zip opening inset pockets.
- Interactive with JK525 outer jacket.

**Conforms to:** BS EN ISO 20471:2013 Class 3, BS EN 340. Orange also Conforms to: RIS-3279-TOM

*All garments in our Interactive Range can be purchased separately.*



## AQUA CLASSIC



JK526-0000-034

JK526-0000-026

Sizes available: XS- 5XL



### Aqua Hi-Vis Ripstop Breathable Bomber Jacket



- Polyester with PU coating Ripstop fabric.
- Dense mesh lining for breathability.



- Fully waterproof garment.
- Raised back collar for protection against all weather conditions.



- Adjustable cuffs with touch and close fastening.



- Inner storm cuffs for added protection.



- Stylish shaped front storm flap.



- Ventilation eyelet holes under each arm.



- Half elasticated bonadex hem for comfort.



- Lighter weight garment with heat applied reflective tape.



- Retractable ID pocket concealed in outer inset pocket.



- Detachable hood with studs to attach to collar.

**Conforms to:** BS EN ISO 20471:2013 Class 3, BS EN343:2003+A1:2007 Class 3:3 & Orange also Conforms to RIS-3279-TOM



EN343:2003+A1:2007



BS EN ISO 20471:2013

Conforms to

RIS-3279-TOM



BS EN ISO 20471:2013



TR661-0000-034



TR661-0000-026

Sizes available: XS- 5XL



### Aqua Ripstop Breathable Over Trouser



- Polyester with PU coating Ripstop fabric.
- Heat applied reflective tape.



- Unlined trouser.



- Fully waterproof garment.



- Fully elasticated back & sides.



- Two double jetted access pockets.



- Back welted pocket.

- Lower leg zip adjustment with self fabric inserts.

**Conforms to:** BS EN ISO 20471:2013 Class 1, BS EN343:2003+A1:2007 Class 3:3 & Orange also Conforms to RIS-3279-TOM



EN343:2003+A1:2007



BS EN ISO 20471:2013

Conforms to

RIS-3279-TOM



BS EN ISO 20471:2013

# AQUA CLASSIC



TR748-0000-026



TR748-0000-034

Sizes available: S- 4XL



## FGX Hi-Vis Lightweight Stretch Cargo Trousers



- 92% Polyester 8% Elastane
- 100% Polyester Ripstop knee patch
- Multi-Dimensional lightweight stretch fabric increasing comfort and mobility
- Improved durability
- Segmented heat applied reflective tape
- Two front slightly slanted pockets
- Multi-functional lower side patch pocket with flaps
- Zip fastened hidden mobile phone or glasses pocket
- Functional back pocket
- High rise elasticated waistband for additional comfort
- Mock fly front.



**Conforms to:** EN ISO 20471: 2013 + A1: 2016 Class 1. Orange also conforms to RIS-3279-TOM ISSUE 2:2019 when worn with a class 2 upper garment



TR776-0000-026



TR776-0000-034

Sizes available: 2XS- 4XL



## FGX Hi-Vis Lightweight Breathable Ballistic Stretch Trousers



- Multi-Dimensional light-weight stretch fabric increasing comfort and mobility.
- Improved Durability,
- Segmented Heat Applied Reflective Tape.
- Multi-functional Lower Side Patch Pocket with Flaps
- Zip Fastened Hidden Mobile Phone/Glasses Pocket.
- Functional Back-Pocket.
- High Rise Elasticated Waistband for Additional Comfort.
- Ballistic Panels.
- 



**Conforms to:** EN ISO 20471: 2013 + A1: 2016 Class 2. Orange also conforms to RIS-3279-TOM ISSUE 2:2019 when worn with a class 2 upper garment



FJ075-0000-034



FJ075-0000-026

Sizes available: S- 6XL



## FGX Hi-Vis Soft Shell Jacket



- Premium tri-laminate RH twill fleece soft shell.
- 100% HV Polyester.
- 300gsm.
- Fleece lined collar for comfort and warmth.
- Grey zip and grey contrast over shoulder.
- Breast pocket flaps and sides.
- Two lower pockets with zip fastening.
- Touch & close adjustable cuffs.
- Drawstring hem for an adjustable fitting.
- Reflective piping.



**Conforms to:** EN ISO 20471:2013 Class 3. Orange also conforms to RIS-3279-TOM ISSUE 2:2019

## AQUA CLASSIC

HIGH VISIBILITY



TR236-0000-034



TR236-0000-026

Sizes available: SML- 4XL



### FGX Hi-Vis Breathable Stretch Cargo Shorts

- Multi-Dimensional light-weight stretch
- fabric increasing comfort and mobility
- Segmented Heat Applied Reflective Tape
- Multi-functional Lower Side Patch Pockets with Flaps
- Zip Fastened Hidden Mobile Phone/ Glasses Pocket
- Functional Back-Pocket
- High Rise Elasticated Waistband for Additional Comfort



Conforms to:

# AQUA CLASSIC



**SS104-0000-026**



**SS104-0000-034**



**FJ098-0000-026**



**FJ098-0000-034**

Sizes Available:



**FGX Recycled Hi-Vis 1/4 Zip Sweat Shirt**



EN343:2003+A1:2007

Conforms to:



BS EN ISO 20471:2013

Sizes available: 2XS- 6XL



**FGX Recycled Hi-Vis Fleece Jacket**



BS EN ISO 20471:2013

Conforms to:



BS EN ISO 20471:2013

Conforms to

RIS-3279-TOR



EN343:2003+A1:2007



**JK126-0000-026**



**JK126-0000-034**

Sizes available: 2XS- 6XL



**FGX Lightweight Laminated Hi-Vis Breathable Waterproof 4:4 Jacket**



BS EN ISO 20471:2013

Conforms to:



EN343:2003+A1:2007



**TR721-0000-026**



**TR721-0000-034**

Sizes available: S- 4XL



**FGX Lightweight Laminated Hi-Vis Breathable Waterproof 4:4 Trousers**



EN343:2003+A1:2007

Conforms to:



BS EN ISO 20471:2013

Conforms to

RIS-3279-TOR



BS EN ISO 20471:2013



## AQUA CLASSIC



**FJ088-0000-034**

Sizes available: XS- 5XL



### Premium Amber Hi Vis Soft Shell Fleece

- Premium tri-laminate soft shell.
- Encapsulated Reflexite tape over each shoulder.
- Fleece lined collar for comfort and warmth.
- Seamless front chest pocket.
- Two lower pockets with zip fastening.
- Touch & close adjustable cuffs.
- Drawstring hem for an adjustable fitting.
- Reflective piping.
- Underarm vents with open mesh and two way underarm zip fastening.



**Conforms to:** BS EN ISO 20471:2013 Class 3



BS EN ISO 20471:2013  
Conforms to  
EN 1579:2004



BS EN ISO 20471:2013



**JK321-0000-034**

Sizes available: XS- 5XL



### Aqua Amber Vented Mesh Jacket

- Polyester light weight long sleeve jacket.
- Orange Reflexite tape shoulder bands.
- Open mesh inserts at front & back yoke and at underarms and side of the body.
- Complete outer edge of the garment is bound.
- Front zip fastening.



**Conforms to:** BS EN ISO 20471:2013 Class 3



BS EN ISO 20471:2013  
Conforms to  
EN 1579:2004



BS EN ISO 20471:2013



**PS075-0000-034**

Sizes available: SML- 5XL



### Aqua Premium L/S Vented Hi-Vis Amber Polo Shirt

- Polyester Bird eye knit fabric.
- Two body and shoulder bands.
- Encapsulated Reflexite tape over each shoulder.
- Ribbed grey contrast collar and cuffs.
- Open mesh inserts underarms for added ventilation.
- Silver reflective piping.



**Conforms to:** BS EN ISO 20471 Class 3, BS EN 340.



BS EN ISO 20471:2013  
Conforms to  
EN 1579:2004



BS EN ISO 20471:2013

# AQUA CLASSIC

HIGH VISIBILITY



JK513-0000-034

Sizes available: SML- 4XL



## Aqua Amber Executive Jacket



- Hi-Vis Amber Jacket suitable for traffic management activities.
- Encapsulated Reflexite Reflective tape over each shoulder.
- Fully seam sealed waterproof jacket.
- External two inset pockets.
- One external mobile phone and one ID pocket.
- Quilted padding throughout for additional warmth.
- Incorporates storm cuffs, drip strip and internal pockets.
- Concealed waterproof hood in the collar.
- Heavy duty front zip under stud fastened storm placket.



**Conforms to:** BS EN ISO 20471:2013 Class 3,  
EN343:2003+A1:2007 Class 3:1



JK109-0000-212

Sizes available: XS- 7XL



## Aqua Amber Bomber Jacket



- Polyester with PU coating fabric.
- Microfiber body lining for warmth.
- Wide stand up collar protection from wind.
- Half elasticated cuffs with touch & close fastening adjustment.
- Half elasticated hem for comfort.
- Orange Reflexite shoulder tapes.
- Front stud and zip fastening.
- Front bellowed pockets with side hand warmer access.
- Outer mobile phone pocket.



**Conforms to:** BS EN ISO 20471:2013 Class 3,  
EN343:2003+A1:2007 Class 3:1

# WOMENS HIGH VISIBILITY



Introducing our latest innovation in rail clothing: a dedicated range of conceptual hi-visibility garments designed specifically for the female workforce. At Future Garments, we understand the unique needs and preferences of women working in the rail industry, and our new collection reflects our commitment to providing functional and stylish solutions.

Our design team has meticulously crafted each garment in this range to ensure optimal fit, comfort, and safety. From hi-visibility vests to jackets and trousers, every piece is tailored to meet the rigorous demands of railway operations while catering to the specific ergonomic requirements of female workers.

## STANDARDS EXPLAINED



### BS EN ISO 20471:2013 - New High Visibility Standard

BS EN ISO 20471:2013 specifies requirements for high visibility clothing which is capable of visually signalling the user's presence. The high visibility clothing is intended to provide conspicuity of the wearer in any light condition when viewed by operators of vehicles or other mechanized equipment during daylight conditions and under illumination of headlights in the dark. Performance requirements are included for colour and retro reflection as well as for the minimum areas and for the placement of the materials in protective clothing. This revised standard is intended to encompass most of the previous 2003 requirements while allowing for more "Corporate" styling without reducing personal safety. For example retro-reflective tape can be positioned at angles +/- 20 degrees. Garments tested to BS EN471:2003 can continue to be sold however any new design must be tested to the revised standards.



### EN471 - Specification for High Visibility Clothing

There are 3 classes of garment type based on the levels of conspicuity they provide, with the classes dictating the minimum quantities of background and retro reflective materials to be used. On all garments the retro-reflective tape must not be less than 50mm wide.

Class 3:

- Highest level of conspicuity
- Minimum background material 0.80m<sup>2</sup>
- Minimum retro-reflective material 0.20m<sup>2</sup> I.e. Jackets or coveralls with sleeves to be worn in accordance with Clause 4.2.4 and to Class 3 on dual carriageway roads with a speed limit of 50mph or above

Class 2:

- Minimum background material 0.50m<sup>2</sup>
- Minimum retro-reflective material 0.13m<sup>2</sup>

Class 1:

- Minimum background material 0.14m<sup>2</sup>
  - Minimum retro-reflective material 0.10m<sup>2</sup>
- I.e. Minimal risk such as off road activities



### EN343:2003 – Protection against rain

This standard specifies the requirements for protective clothing against the effects of foul weather (rain, wind and snowflakes). Garments according to this standard often offers protection against cold and therefore follow the BS EN342 standard and have corresponding markings. It also happens to be that protection against rain and visibility needs are needed in the same garment.

The requirements of the BS EN343 Include:

- Water resistance
- Moisture, vapour and perspiration or 'breathability' of the garment
- Strength of garment components – tensile, tear, seam strength and shrinkage



### GO/RT 3279 REPLACED WITH RIS-3279-TOM

GO/RT 3279 is the standard produced by The Railway Group for the minimum requirements for high visibility clothing, to ensure people are conspicuous when working on or near railway tracks. The standard tries to ensure that clothing worn by workers on or near railway tracks should conform to a single standard for the colour and luminance of background material, and should conform to a single standard for the photometric and physical performance of retro reflective material to aid conspicuousness in darkness or poor visibility.

All Future Garments products certified to GO/RT 3279 will meet the requirements of the new Rail Industry Standard (RIS-3279-TOM).



## AQUA WOMENS CLASSIC



JK979-0000-026



JK979-0000-034

Sizes available: XS (8) - 3XL (20-22)



### Aqua Womens Rip-Stop Hi-Vis Waterproof Jacket



- Polyester with PU coating Ripstop fabric.
- Waterproof & breathable outer fabric.
- Fully waterproof and breathable.
- Lighter weight garment with heat applied reflective tape.
- Mesh lining in body and sleeves.
- Panel detail.
- Detachable 3 piece lined peaked hood.
- Front shaped storm flap with zip, stud and touch & close fastening.
- Touch & close adjustable cuffs with a inner storm cuff.
- Two outer pockets with fleece lining.
- Left hand side as worn map pocket.
- Two inner pockets for storage.
- Draw cord hem for easy adjustment.
- Internal tablet holder



**Conforms to:** BS EN ISO 20471:2013 Class 3 + A1:2016  
BS EN343:2003+A1:2007 Class 3:3 & Orange meets RIS-3279-TOM



TR668-0000-026



TR668-0000-034

Sizes available: 8-26

Available in Short, Regular and Tall



### Aqua Womens Hi-Vis Cargo Trouser



- High visibility work wear cargo trouser.
- Premium poly cotton fabric.
- Front concealed hook & bar and button fastening.
- 7 belt loops with an elasticated back.
- Two side hip pockets.
- Bellowed cargo pocket to each thigh.
- One back patch pocket.
- External knee pad pockets with pillow fold access.
- Inside & outside leg twin needle stitching.
- 3 reflective tapes to each leg.



**Conforms to:** BS EN ISO 20471:2013 Class 1 & Orange  
also  
Conforms to RIS-3279-TOM

# AQUA WOMENS PREMIUM

WOMENS HIGH VISIBILITY



**PS087-0000-034**



**PS087-0000-026**

Sizes available: XS (8) - 3XL (20-22)



## Aqua Womens Short Sleeve Hi-Vis Polo Shirt

- 100% Polyester Bird eye knit fabric.
- Contrast knitted collar.
- Heat applied segmented reflective tape.
- Segmented tape provides movement with fabric stretch.
- Shaped side panels for more fitted appearance.
- Three button front fastening.
- Stylish curved hem.

**Conforms to:** BS EN ISO 20471 Class 2, BS EN 340 & Orange meets RIS-3279-TOM



**PS086-0000-026**



**PS086-0000-034**

Sizes available: XS (8) - 3XL (20-22)



## Aqua Womens Long Sleeve Hi-Vis Polo Shirt

- 100% Polyester Bird eye knit fabric.
- Contrast knitted collar.
- Heat applied segmented reflective tape.
- Segmented tape provides movement with fabric stretch.
- Shaped side panels for more fitted appearance.
- Three button front fastening.
- Stylish curved hem.

**Conforms to:** BS EN ISO 20471 Class 3, BS EN 340 & Orange meets RIS-3279-TOM





# FR MULTI RISK



Introducing Aqua-FR and Phoenix FR, our premier range of flame-retardant (FR) clothing designed specifically for railway professionals. These garments are meticulously crafted using flame-retardant treated cotton and inherent mod acrylic fabric, ensuring the highest level of protection against thermal hazards.

At Future Garments, safety is our priority, and our Aqua-FR and Phoenix FR ranges are no exception. Each garment in this collection conforms to the latest ARC (arc flash) standards, providing railway workers with reliable protection in environments where arc flash incidents may occur.

## PHOENIX-FR



FUTURE GARMENTS STYLE CODE	ARC FR RESULTS
AC231-000-024	Ebt <sub>50</sub> 5.9 Cal/cm <sup>2</sup>
BS108-000-034/211/209/293	ATPV 10.8 Cal/cm <sup>2</sup>
BS120-000-024	ATPV 10.8 Cal/cm <sup>2</sup>
FJ534-000-024	ATPV 12.6 Cal/cm <sup>2</sup>
HT041-000-005	Ebt <sub>50</sub> 5.9 Cal/cm <sup>2</sup>
JX938-000-255	ATPV 10.8 Cal/cm <sup>2</sup>
PS137-000-005/024/029	ATPV 9.1 Cal/cm <sup>2</sup>
PS151-000-211	ATPV 6.8 Cal/cm <sup>2</sup>
PS153-000-024	Ebt <sub>50</sub> 5.0 Cal/cm <sup>2</sup>
SS015-000-005/024/029	ATPV 12.6 Cal/cm <sup>2</sup>
SS052-000-034	ATPV 12.6 Cal/cm <sup>2</sup>
TR040-000-034	ATPV 10.8 Cal/cm <sup>2</sup>
TR181-000-024/005	ATPV 10.8 Cal/cm <sup>2</sup>
TR380-000-024	Ebt <sub>50</sub> 5.9 Cal/cm <sup>2</sup>
TS001-000-024	Ebt <sub>50</sub> 5.0 Cal/cm <sup>2</sup>



### ARC FLASH

An explosive release of energy caused by an electrical arc. An Arc Flash results from either a phase to ground or a phase to phase fault caused by such occurrences as accidental contact with electrical systems, build up of conductive dust, corrosion, dropped tools, and improper work procedures. During an Arc Flash, the temperature can reach 35,000° Fahrenheit, and exposure to an Arc Flash can result in serious burn injury and death. Every year, more than 2,000 people are admitted to burn centers with severe Arc Flash burns!! Awareness of the dangers of Arc Flash incidents and the need to protect your team with specialist Arc Flash protection is more important today than it has ever been. A focus on Arc Flash protection will only increase as you become more aware of the dangers an Arc Flash incident can pose. Mitigating risk with safe working practices and by providing appropriate garments that offer superior Arc Flash protection saves lives every day.



### BS EN 61482-1-2 - Protective clothing against the hazards of an electric arc

The standard defines two testing conditions, namely Class 1 and Class2:

#### Class 1 test at an Arc current of 4 kA and Arc duration of 500ms.

IEC 61482- 1 "Open Arc Test Method"

The arc rating is most commonly quantified by the Arc Thermal Performance Value (ATPV) determined by the open arc test method IEC 61482-1. The ATPV represents the maximum incident thermal energy in units of energy per surface area (e.g. kJ/m<sup>2</sup> or cal/cm<sup>2</sup>) that a fabric can support before the wearer will suffer 2nd degree burns. The break-open threshold energy (or EBT) is another fabric characteristic. It represents the highest incident energy exposure value on a fabric where the garments do not exhibit break-open. The formation of holes in the fabric caused by break-open would allow heat or flames to pass through. Workers are assumed safe if the arc rating of their clothing (or ATPV value) exceeds the electric arc incident energy as calculated in the worst case scenario of a risk assessment. Materials or assemblies are given an ATPV value, expressed in kilojoules per square metre (kJ/m<sup>2</sup>), which can be converted into the familiar cal/cm<sup>2</sup>.



## PHOENIX-FR

### Class 2 tests at an Arc current of 7 kA and an Arc duration of 500ms.

IEC 61482-1-2 "Box Test"

The box test is another way to measure the protective performance of clothing against the thermal effects of an electric arc, and is defined in the IEC 61482-1-2 test method. In this test, the fabric is exposed to an electric arc confined in a specific box with a specific electrode arrangement.

A fabric passes the test:

- If the heat transferred behind the fabric does not cause second degree burn
  - If the after flame time is below 5 seconds
  - If there is no melting to the inner side of the fabric
  - If a hole caused by the arc is not larger than 5 mm in every direction (in the inner most layer)
- The box test standard defines two testing conditions, known as Class 1 and Class 2. Test conditions for Class 1 try to simulate typical exposure conditions for a short circuit current of 4 kA protected by devices limiting the duration of the arc to 0.5 seconds in confined space, and of 7 kA respectively for Class 2.

### BS EN ISO 11612:2008\* – Protective Clothing to Protect against Heat and Flame

This standard specifies performance requirements for garments made from flexible materials, which are designed to protect the wearer's body (except the hands) from heat and/or flame. The performance requirements set out in BS EN ISO 11612:2008 are applicable to garments which could be worn for a wide range of end uses, where there is a need for clothing with limited flame spread properties and where the user can be exposed to radiant or convective or contact heat or to molten metal splashes.

The following parameters are used:

Code A1 – Limited flame spread to outer surface

Code A2 – Limited flame spread to edge

Code B – Convective heat

Code C – Radiant heat

Code D – Molten aluminium splash

Code E – Molten iron splash

Code F – Contact heat



### BS EN ISO 14116:2008\* – Protective Clothing to Protect against Heat and Flame – Limited Flame Spread

This standard specifies the performance requirements for the limited flame spread properties of materials and protective clothing in order to reduce the possibility of the clothing burning and itself constituting a hazard. Protective clothing complying with BS EN ISO 14116:2008 is intended to protect workers against occasional and brief contact with small igniting flames, in circumstances where there is no significant heat hazard and without presence of another type of heat. When protection against heat hazards is necessary in addition to protection against limited spread flammability, then standards, such as BS EN ISO 11612, are more appropriate.



### BS EN ISO 11611:2008\* - Protective Clothing for use in Welding and Allied Processes

Clothing is intended to protect the wearer against spatter (small splashes of molten metal), short contact time with flame, radiant heat from the arc, and minimise the possibility of electrical shock by short-term, accidental contact with live electrical conductors at voltages up to approximately 100v in normal conditions of welding.



### BS EN 1149-5:2008 - Protective Clothing -Electrostatic Properties - Part 5: Material Performance and Design Requirements

This European Standard specifies material and design requirements for electrostatic dissipative protective clothing, used as part of a total earthed system, to avoid incendiary discharges. The standard specifies three areas-

- 1) Performance requirements of materials
- 2) Design requirements
- 3) Marking and guidance



### BS EN 13034:2005 - Protective Clothing against Liquid Chemicals

This standard specifies the minimum requirements for limited use and re-useable limited performance chemical protective clothing. Limited performance chemical protective clothing is intended for use in cases of a potential exposure to a light spray, liquid aerosols or low pressure, low volume splashes, against which a complete liquid permeation barrier (at the molecular level) is not required. Chemical protective suits (Type 6) cover and protect at least the trunk and the limbs, e.g. one-piece coveralls or two piece suits, with or without hood, boot-socks or boot-covers.



\*These standards are now updated to 2015 and all Future Garments products will meet the requirements of the 2015 Standards.

# PHOENIX-FR

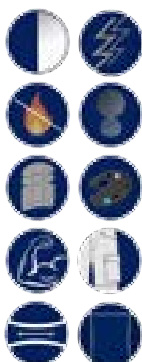
FR MULTI RISK



BS108-0000-211

-  BS108-0000-034
-  BS108-0000-211
-  BS108-0000-293
-  BS108-0000-209

Sizes available: S- 5XL  
Available in Regular and Tall



## Phoenix-FR Antistatic Hi-Vis Coverall

- 300gsm Modacrylic cotton outer fabric.
- Inherently flame retardant and antistatic.
- Racing collar with touch & close fastening.
- Two chest pockets.
- Adjustable elasticated cuffs with touch and close fastening.
- Two side inverted welt pockets with access to trouser pockets.
- External knee pad pockets.
- Zip front concealed under flap.
- Action back with elastication.
- Zip opening gusset at the base of each leg concealed under flap.
- Flame retardant Hi-Vis reflective tape to BS EN ISO 20471:2013 configuration.

Conforms to: BS EN ISO 20471:2013 Class 3:2, BS EN 1149-5 : 2008 (Parts 1, 2, 3 & 5), BS EN ISO 11611:2015 Class 1, A1 + A2, BS EN ISO 11612:2015 A1 A2 B1 C1, Conforms to prEN16689:2016, BS EN 61482-1-2:2007 Class 1 , 4kA, BS EN 61482-1-1:2009 (ATPV 10.5 Cal/cm2)

## PHOENIX-FR

FR MULTI RISK



PS151-0000-211



PS151-0000-026

Sizes available: S- 4XL



### Phoenix-FR Antistatic Hi-Vis Polo Shirt



- Inherently flame retardant shirt.
- Modacrylic cotton knitted fabric.
- Front and back panel detail.
- Navy contrast bibbed collar and cuffs.
- Triple layer placket with a concealed three button front fastening.



**Conforms to:** BS EN ISO 20471:2013 Class 3, BS EN ISO 11612:2015 A1 A2 B1 C1, BS EN1149-3:2004, BS EN1149-5:2008, IEC 61482-2 ATPV:6.8cal/cm2 Class 1 BS EN61482-1-1 BS EN61482-1-2.



# PHOENIX-FR



SS052-0000-026



SS052-0000-034

Sizes available: S- 4XL



## Phoenix-FR Antistatic Hi-Vis Sweatshirt

- Inherently flame retardant welding sweatshirt.
- Modacrylic cotton with anti-static fabric.
- Ribbed neck, wrists & waist.
- Navy contrast.

**Conforms to:** BS EN ISO 20471:2013 Class 3, BS EN ISO 11612:2015 A1 A2 B1 C1, BS EN ISO 11611:2015 Class 1 A1, BS EN1149-3:2004, BS EN1149-5:2008, IEC 61482-2 ATPV:12.6cal/cm2 Class 1 BS EN61482-1-1 BS EN61482-1-2.





## PHOENIX-FR

FR MULTI RISK



JK471-0000-208

Sizes available: S- 5XL



### Phoenix-FR Hi-Vis Orange/Navy Arc Jacket



- Inherently FR and Antistatic Jacket.
- Three layer laminated fabric outer with three layer sealing tape seams.
- Two bellowed hip pockets with pocket flaps
- Breast pockets with access for radio antenna. .
- Double storm flap with YKK front zip.
- Interactive YKK inner zip to cater for detachable fleece liner (FJ534).
- Concealed detachable hood with peak.
- Water proof and lightweight jacket.



EN343:2019



ENISO11612:2015



ENISO11611:2015



EN1149-5:2008



EN61482-1-2:2007



ENISO20471:2013



**Conforms to:** EN ISO20471:2013+A1:2016, EN1149-5:2008 (Includes Part 1, 2, 3 & 5), BS EN340, EN343:2019 Class 4:1, EN ISO 11611:2015 Class 2 A1 A2 , EN ISO 11612:2015 A1 B1 C1 F1, EN13034 : 2005 Type 6, BS EN61482-1-2 : 2007 (ATPV 26.6 Cal/cm2) ELIM 24 Cal

# PHOENIX-FR



**TR040-0000-034**

Sizes available: 28" - 54"  
Available in Regular and Tall



## Phoenix-FR Comfort Cargo Trousers

- Flame retardant workwear trousers.
- Side cargo pocket with flap.
- Mobile phone pocket on front cargo pocket.
- Back pocket with flap.
- Reinforced seams.
- Two reflective leg bands.
- Two outer knee pad pockets.

**Conforms to:** BS EN ISO20471:2013, BS EN 1149-3:2004, BS EN1149-5:2008, BS EN ISO11611:2015, BS EN ISO11612:2015, BS EN 61482-1-2:2007(Class 1 4kA), BS EN 61482-1-1:2009(ATPV 10.5 Cal/cm2).



## PHOENIX-FR

FR MULTI RISK



215gsm



**TR233-0000-026**

Sizes available: 28" - 54"  
Available in Regular and Tall



### Phoenix-FR Comfort Cargo Trouser



- 215gsm Modacrylic ,cotton,Polyamide , Polyarylate , AS,Ripstop outer
- fabric.



- Inherently flame retardant and antistatic.
- Side Cargo Trousers with touch & close fastening pocket flap.
- Mobile Phone Pocket.
- Back Pocket with flap.



- Reinforced Seams , stress points.



- Two reflective leg bands



- External knee pad pockets.
- Flame retardant Hi-Vis reflective tape to EN ISO 20471:2013 configuration.

Conforms to: EN ISO 20471:2013+A1:2016 Class 2

EN 1149-5 : 2008 (Parts 1, 2, 3 & 5)

EN ISO 11611:2015 Class 1, A1

EN ISO 11612:2015 A1 B1 C1

Conforms to ;

EN 61482-1-2:2007 Class 1 , 4kA

EN 61482-1-1:2009 (ATPV 9.4 Cal/cm2)

RIS-3279-TOM iss.1(2016)

# GORE-TEX



JK470-0000-208



TR689-0000-208

Sizes available: S- 5XL



## Flame Retardant, Anti-Static Hi-Vis Rain Jacket



- Outside: Zip closure under double front flap, front flap with velcro closure.
- 2 front pockets.
- 1 Chest pocket.
- 2 loops for badges.
- Elastic in sleeves with touch and close fastening.
- Inside: 2 inside pockets.



**Conforms to:** BS EN 20471 : class 3 BS EN 343 : class 3-3 BS EN 1149-5 BS EN 11611 : class 2 BS EN 11612 : A2+B2+C1+D1+E2+F1, BS EN 13034 : type PB 6, IEC 61482-1-2 Class 2



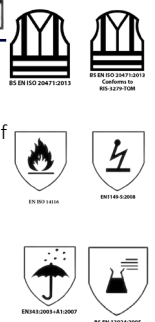
Sizes available: Regular and Tall



## Flame Retardant Antistatic Rain Trousers



- 2-layer laminated in polyester, waterproof, windproof
- Rain, High visibility, Flame retardant,
- Antistatic, Limited chemical resistant
- PPE Category: III



**Conforms to:** BS EN 343, BS EN ISO 20471: Class 2 BS EN13034, BS EN ISO 11612,BS EN 1149





**GORE-TEX**



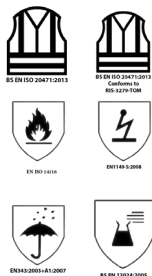
Sizes available: S- 5XL



**Flame Retardant, Anti-Static Hi-Vis Rain Jacket**



- Outside: Zip closure under double front flap, front flap with velcro closure.
- 2 front pockets.
- 1 Chest pocket.
- 2 loops for badges.
- Elastic in sleeves with touch and close fastening.
- Inside: 2 inside pockets.



**Conforms to:** BS EN 20471 : class 3 BS EN 343 : class 3-3 BS EN 1149-5 BS EN 11611 : class 2 BS EN 11612 : A2+B2+C1+D1+E2+F1, BS EN 13034 : type PB 6, IEC 61482-1-2 Class 2



**JK470-0000-211**

Sizes available: Regular and Tall



**Flame Retardant Antistatic Rain Trouser**

- 2-layer laminated in polyester, waterproof, windproof
- Rain, High visibility, Flame retardant,
- Antistatic, Limited chemical resistant
- PPE Category: III



**Conforms to:** BS EN 343, BS EN ISO 20471: Class 2 BS EN13034, BS EN ISO 11612, BS EN 1149



**TR689-0000-211**

FR MULTI RISK

## PHOENIX-FR

FR MULTI RISK



FJ534-0000-024



Sizes available: S- 5XL



### Phoenix-FR Fleece



- FR Anti-static Modacrylic fleece fabric.
- High collar with hi-vis contrast back panel.
- Full zip front with contrasting placket.
- Raglan sleeves with reflective piping.
- Two pockets with zip fastening.
- Adjustable hem fitting with draw cord.
- Comfortable elasticated cuffs.
- Interactive with JK515.

**Conforms to:** BS EN ISO 11612:2015 A1 A2 B1 C1, BS EN ISO 11611:2015 Class 1 A1, BS EN1149-3:2004, BS EN1149-5:2008, IEC 61482-2 ATPV:12.6cal/cm2 Class 1 BS EN61482-1-1 BS EN61482-1-2.

## PHOENIX-FR



**PS153-0000-024**

Sizes available: S- 8XL



### Phoenix-FR Knitted Jersey

- Knitted jersey FR welding Polo shirt.
- Concealed front zip fastening.
- Contrast under placket.
- Front and back panel detail.

**Conforms to:** BS EN ISO 11612:2015 A1 A2 B1 C1, BS EN1149-3:2004, BS EN1149-5:2008, IEC 61482-2 Ebt50= 5.0cal/cm2 Class 1 BS EN61482-1-1 BS EN61482-1-2.



**SS015-0000-029**

**SS015-0000-024**

**SS015-0000-005**

Sizes available: S- 8XL



### Phoenix-FR Antistatic Sweatshirt

- Inherently flame retardant sweatshirt.
- Modacrylic cotton knitted brushed fabric.
- Ribbed neck, wrists & waist.

**Conforms to:** BS EN ISO 11612:2015 A1 A2 B1 C1, BS EN ISO 11611:2015 Class 1 A1, BS EN1149-3:2004, BS EN1149-5:2008, IEC 61482-2 ATPV:12. 6cal/cm2 Class 1 BS EN61482-1-1 BS EN61482-1-2.



**PS137-0000-029**

**PS137-0000-024**

**PS137-0000-005**

Sizes available: S- 8XL



### Phoenix-FR Long Sleeve Antistatic Polo Shirt

- Inherently flame retardant polo shirt.
- Modacrylic cotton knitted fabric.
- Ribbed collar and cuffs.
- Triple layer placket with a concealed three button front fastening.

**Conforms to:** BS EN ISO 11612:2015 A1 A2 B1 C1, BS EN ISO 11611:2015 Class 1 A1, BS EN1149-3:2004, BS EN1149-5:2008, IEC 61482-2 ATPV:9.1cal/cm2 Class 1 BS EN61482-1-1 BS EN61482-1-2.



## PHOENIX-FR



TR181-0000-024



TR181-0000-005

Sizes available: 28" - 54"  
Available in short, reg and tall



### Phoenix-FR Anti Static Trouser

- 310gsm Modacrylic cotton
- Leg cargo pockets with flaps
- Front cargo pocket with mobile phone pocket
- Back pocket with flap and reinforced seams

**Conforms to:** BS EN ISO 11612:2015 (A1 A2 B1 C1), BS EN1149-3 :2004 & BS EN1149-5:2008, BS EN ISO 11611:2015 (Class 1, A1 A2), IEC 61482-2:2009, BS EN61482-1-2:2007(Class 1, 4kA), BS EN61482-1-1:2009 (ATPV 10.8 Cal/cm2)



TR613-0000-255

Sizes available: 28" - 54"  
Available in Short, Regular and Tall



### Phoenix-FR Welders Work-Wear Trousers

- 310gsm inherently flame retardant fabric.
- Zip front with two back pockets.
- Concealed Zip and Stud fastening.
- Anti-static.
- Black with Yellow Contrast detail.
- External knee pad pockets.

**Conforms to:** BS EN ISO 11611:2015 Class 1 A1 A2 welding standards BS EN ISO 11612:2015, BS EN1149-3, IEC 61482-2:2009, BS EN61482-1-2:2007 Class 1 and BS EN61482-1-1:2009 (ATPV = 10.8 Cal/cm2)





## PHOENIX-FR



TS001-0000-024

Sizes available: S- 5XL



### Phoenix-FR Antistatic T-Shirt

- Inherently flame retardant long sleeved T-Shirt.
- Worn as a under garment in conjunction with flame retardant outerwear.
- Ribbed neckline and cuffs.
- Twin needle cover seam hem.
- Long sleeve.



**Conforms to:** BS EN ISO 11612:2015 ( A1 A2 B1 C1), BS EN 1149-3:2004 & BS EN 1149-5:2008, BS EN 61482-1-2:2007 (Class 1 = 4kA), BS EN 61482-1-1:2009 (Ebt50=5.0 Cal/cm2)



FR MULTI RISK

Sizes available: S- 5XL



### Phoenix-FR Long John

- Inherently flame retardant and antistatic.
- Modacrylic cotton fabric.
- Elasticated waist with ribbed ankles.
- Provides excellent insulation layer.
- Ideal under garments.



**Conforms to:** BS EN ISO 11612:2015 A1 B1 C1, BS EN 1149-3:2004 & BS EN 1149-5: 2008 , BS EN 61482-1-2:2007 (Class 1 = 4kA) , BS EN61482-1-1:2009 (Ebt50 = 5.9 Cal/cm2)



TR380-0000-024

## PHOENIX-FR



HT041-0000-005

One Size



### Phoenix-FR Antistatic Balaclava

- Inherently flame retardant antistatic balaclava.
- To be worn underneath a welding helmet to give full protection.
- Fits around head and neck.

**Conforms to:** BS EN ISO 11612:2015 , IEC 61482:2009, BS EN 61482-1-2:2007(CLASS 1) , BS EN 61482-1-1:2009 (Ebt=5.9 Cal/cm2)



One Size



### Phoenix-FR Antistatic Snood

- Modacrylic cotton fabric.
- Inherently flame retardant and antistatic.
- Ideal to protect the neck from sparks.
- Can be worn over the back of the head to protect hair from sparks.

**Conforms to:** BS EN1149-5:2008, BS EN1149-3:2004, BS EN ISO 11611 2015 Class 1 A1, BS EN ISO 11612 A1 B1 C1: 2015.



AC231-0000-024

# RAIL CLOTHING



Introducing Aqua Rail, a range of high-performance rail clothing certified to the latest standards RIS-3279-TOM. At Future Garments, we understand the critical importance of safety and functionality in rail environments. Our Aqua Rail range is meticulously crafted to meet these demands, offering railway professionals the highest level of protection and comfort.

Each garment in our Aqua Rail collection is designed with the wearer in mind, ensuring practicality and durability without compromising on safety. Our commitment to quality is reflected in every aspect of the design and production process, from materials selection to stitching techniques.



# STANDARDS EXPLAINED



## GO/RT 3279 REPLACED WITH RIS-3279-TOM

GO/RT 3279 is the standard produced by The Railway Group for the minimum requirements for high visibility clothing, to ensure people are conspicuous when working on or near railway tracks. The standard tries to ensure that clothing worn by workers on or near railway tracks should conform to a single standard for the colour and luminance of background material, and should conform to a single standard for the photometric and physical performance of retro reflective material to aid conspicuousness in darkness or poor visibility.

### Background material colour characteristics

The target colour of new background material shall be fluorescent orange with chromaticity and luminance defined as follows:

Colour	Chromaticity Coordinates		Minimum Luminance Factor $\beta_{min}$
	x	y	
Fluorescent Orange	0.588	0.371	0.4

GO/RT3279 Is based on the European standard BS EN ISO20471, it defines the minimum areas of high-visibility orange background materials to be used within a garment and the minimum level of photometric performance criteria for the reflective tape. The standard requires a reflective tape reading of  $\geq 330$  (cd/ lx.m2).

GO/RT3279 Imposes a higher concentration for high-visibility orange fabric for railway workers. This increases the conspicuous nature of the fabric and ensures the rail worker is more visible. A spectrophotometer is used to check the chromaticity (colour intensity) of the orange high-visibility fabric.

GO/RT 3279 Also specifies the requirements for a high-visibility mini-vest. Mini-vests conform to class 1 design under BS EN ISO 20471 and exceed the requirements for both the minimum area of the orange background material and retro- reflective tape in the garment.

All Future Garments products certified to GO/RT 3279 will meet the requirements of the new Rail Industry Standard (RIS-3279-TOM).



# AQUA



**JK525-0000-026**



**JK526-0000-026**

Sizes available: XS- 5XL



## Aqua Hi-Vis Ripstop Breathable Jacket



- Polyester with PU coating Ripstop fabric.
- Dense mesh lining for breathability.
- Fully waterproof garment.
- Raised back collar for protection against all weather conditions.
- Adjustable cuffs with touch and close fastening.
- Inner storm cuffs for added protection.
- Stylish shaped front storm flap.
- Lighter weight garment with heat applied reflective tape.
- Ventilation eyelet holes under each arm.
- Draw cord adjustment at waist for comfort and a tighter fit.
- Multi inner pockets including tablet pocket and phone pocket with clear fronts for quick use.
- Retractable ID pocket concealed in outer inset pocket.
- Detachable hood with touch & close fastening to adjust the peak.
- Interactive zip to attach a fleece jacket for added warmth.



(Hi-Vis Yellow does not conform to RIS-3279-TOM)  
**Conforms to:** BS EN ISO 20471:2013 Class 3, BS EN343:2003+A1:2007 Class 3:3 & RIS-3279-TOM

Sizes available: XS- 5XL



## Aqua Hi-Vis Ripstop Breathable Bomber Jacket



- Polyester with PU coating Ripstop fabric.
- Dense mesh lining for breathability.
- Fully waterproof garment.
- Raised back collar for protection against all weather conditions.
- Adjustable cuffs with touch and close fastening.
- Inner storm cuffs for added protection.
- Stylish shaped front storm flap.
- Ventilation eyelet holes under each arm.
- Half elasticated bonadex hem for comfort.
- Lighter weight garment with heat applied reflective tape.
- Retractable ID pocket concealed in outer inset pocket.
- Detachable hood with studs to attach to collar.



(Hi-Vis Yellow does not conform to RIS-3279-TOM)  
**Conforms to:** BS EN ISO 20471:2013 Class 3, BS EN343:2003+A1:2007 Class 3:3 & RIS-3279-TOM

# AQUA



**BW484-0000-026**

Sizes available: XS- 5XL



## Reversible Hi-Vis Ripstop Body warmer

- Polyester with PU coating Ripstop fabric.
- Fleece lined collar for comfort.
- Hi-Vis outer and Navy inner.
- Detachable quilted sleeves for all year round wear.
- Multi pockets for storage.
- Elasticated front hem for added comfort.
- Stud fastening at sides for adjustment.
- Lighter weight garment with heat applied reflective tape.



BS EN ISO 20471:2013

Conforms to

EN ISO 20471



BS EN ISO 20471:2013

(Hi-Vis Yellow does not conform to RIS-3279-TOM)

**Conforms to:** BS EN ISO 20471:2013 Class 2 & RIS-3279-TOM



**TR661-0000-026**

Sizes available: XS- 5XL



## Aqua Ripstop Breathable Over Trousers



- Polyester with PU coating Ripstop fabric.
- Heat applied reflective tape.
- Unlined trouser.
- Fully waterproof garment.
- Fully elasticated back & sides.
- Two double jetted access pockets.
- Back welted pocket.
- Lower leg zip adjustment with self fabric inserts.



BS EN ISO 20471:2013

Conforms to

EN ISO 20471



BS EN ISO 20471:2013

(Hi-Vis Yellow does not conform to RIS-3279-TOM)

**Conforms to:** BS EN ISO 20471:2013 Class 1, BS EN343:2003+A1:2007 Class 3:3 & RIS-3279-TOM



EN343:2003+A1:2007

**AQUA**

RAIL CLOTHING

Sizes available: SML- 4XL



### Aqua Breathable trouser

- 300D Twill weave waterproof & breathable outer fabric.
- Fully elasticated waist.
- Two side access hip pockets.
- One back pocket with touch and close fastening.
- Side leg adjustment with touch and close fastening.



BS EN ISO 20471:2013

Conforms to



BS EN ISO 20471:2013



EN343:2003+A1:2007

(Hi-Vis Yellow does not conform to RIS-3279-TOM)

**Conforms to:** BS EN ISO 20471:2013 Class 1, BS EN343:2003+A1:2007 Class 3:3 & RIS-3279-TOM

**TR605-0000-026**



**TR047-0000-026**



Sizes available: 28" - 54"  
Available in Short, Regular and Tall



### Aqua Premium Hi-Vis Cargo Trouser

- Premium poly/cotton cargo trouser.
- Internally elasticated waistband for added comfort.
- Tunnel belt loop at the back of the waistband.
- Concealed front hook & bar fastening with a grown on flap with stud fastening.
- Two rear back pockets.
- Two large cargo pockets to each thigh.
- Right thigh cargo pocket comes with a mobile phone & pen pocket access.
- External knee pad pockets.
- Two reflective bands to each leg.



BS EN ISO 20471:2013

Conforms to



BS EN ISO 20471:2013

(Hi-Vis Yellow does not conform to RIS-3279-TOM)

**Conforms to:** BS EN ISO 20471:2013 Class 1 & RIS-3279-TOM

# AQUA



**JK050-0000-026**

Sizes available: SML- 3XL



**Gore -Tex Rail Jacket**



- PU laminated polyester outer fabric.
- Mid thigh style jacket.
- Two external in-set pockets.
- Lightweight mesh lined throughout.
- Available with a detachable hood.



**Conforms to:** BS EN471 Class 3. BS EN343 3:3. GORT 3279



**TR020-0000-026**

Sizes available: XS- 4XL



**Gore-Tex Rail Trouser**



- PU laminated polyester outer fabric.
- One piece pull-up style.
- Access to internal garment pocket.
- Unlined.
- Elasticated waist.



**Conforms to:** BS EN471 Class 1. BS EN343 3:3. GORT 3279



**JK508-0000-026**

Sizes available: XS- 5XL



**Gore -Tex Bomber Jacket**



- PU laminated polyester outer fabric.
- Short length style jacket.
- Two external in-set pockets.
- Lightweight mesh lined throughout.
- Available with a detachable hood.



**Conforms to:** BS EN471 Class 3. BS EN343 3:3. GORT 3279



**BS125-0000-026**

Sizes available: SML- 3XL



**Gore -Tex lined coverall**



- Two layered lined.
- Quilt lined garment.
- Double storm flap.
- Stud & zip fastening.
- Front pockets.



**Conforms to:** BS EN471 Class 1. BS EN343 3:3. GORT 3279





# AQUA



**FJ075-0000-026**

Sizes available: XS- 5XL



## Premium Aqua Hi Vis Soft Shell Fleece

- Premium tri-laminate RH Twill Fleece soft shell.
- 100% HV polyester.
- 300-320 gsm
- Fleece lined collar for comfort and warmth.
- Grey zip and grey contrast over shoulder.
- Breast pocket flaps and sides
- Two lower pockets with zip fastening.
- Touch & close adjustable cuffs.
- Drawstring hem for an adjustable fitting.
- Reflective piping.



**Conforms to:** BS EN ISO 20471:2013 Class 3 & Orange also Conforms to RIS-3279-TOM



**FJ077-0000-026**

Sizes available: SML- 4XL



## Premium Aqua Hi-Vis Fleece

- Heavyweight polyester micro fleece outer fabric.
- Stand up collar.
- Zip fastened front to the top of the collar.
- BS EN ISO 20471 reflective tape configuration.
- Elasticated cuffs with draw cord adjustable hem.
- Two outside zip opening inset pockets.
- Interactive with JK525 outer jacket.



(Hi-Vis Yellow does not conform to RIS-3279-TOM)

**Conforms to:** BS EN ISO 20471:2013 Class 3, BS EN 340 & RIS-3279-TOM



**SS001-0000-026**

Sizes available: SML- 4XL



## Aqua Hi-Vis Quarter Zip Sweat Shirt

- Premium polyester cotton brushed fabric.
- BS EN ISO 20471 reflective tape configuration.
- Navy contrasted knitted rib cuffs and hem.
- Navy contrast ribbed collar with front self fabric panels.
- Concealed front zip.



**Conforms to:** BS EN ISO 20471:2013 Class 3, BS EN 340 & RIS-3279-TOM



**BW484-0000-026**

Sizes available: XS- 5XL



## Reversible Hi-Vis Ripstop Bodywarmer

- Polyester with PU coating Ripstop fabric.
- Fleece lined collar for comfort.
- Hi-Vis outer and Navy inner.
- Detachable quilted sleeves for all year round wear.
- Multi pockets for storage.
- Elasticated front hem for added comfort.
- Stud fastening at sides for adjustment.
- Lighter weight garment with heat applied reflective tape.



**Conforms to:** BS EN ISO 20471:2013 Class 2 & Orange also Conforms to RIS-3279-TOM



# AQUA

JK525-0000-026



Sizes available: XS- 5XL



## Aqua Hi-Vis Ripstop Breathable Jacket



- Polyester with PU coating Ripstop fabric.
- Dense mesh lining for breathability.
- Fully waterproof garment.
- Raised back collar for protection against all weather conditions.
- Adjustable cuffs with touch and close fastening.
- Inner storm cuffs for added protection.
- Stylish shaped front storm flap.
- Lighter weight garment with heat applied reflective tape.
- Ventilation eyelet holes under each arm.
- Draw cord adjustment at waist for comfort and a tighter fit.
- Multi inner pockets including tablet pocket and phone pocket with clear fronts for quick use.
- Retractable ID pocket concealed in outer inset pocket.
- Detachable hood with touch & close fastening to adjust the peak.
- Interactive zip to attach a fleece jacket for added warmth.



(Hi-Vis Yellow does not conform to RIS-3279-TOM)

**Conforms to:** BS EN ISO 20471:2013 Class 3,  
BS EN343:2003+A1:2007 Class 3:3 & RIS-3279-TOM



FJ077-0000-026



BW484-0000-026



*All garments in our Interactive Range can be purchased separately.*

Sizes available: SML- 4XL



## Premium Aqua Hi-Vis Fleece



- Heavyweight polyester micro fleece outer fabric.
- Stand up collar.
- Zip fastened front to the top of the collar.
- BS EN ISO 20471 reflective tape configuration.
- Elasticated cuffs with draw cord adjustable hem.
- Two outside zip opening inset pockets.
- Interactive with JK525 outer jacket.



**Conforms to:** BS EN ISO 20471:2013 Class 3, BS  
EN 340. Orange also Conforms to: RIS-3279-TOM

Sizes available: XS- 5XL



## Reversible Hi-Vis Ripstop Bodywarmer

- Polyester with PU coating Ripstop fabric.
- Fleece lined collar for comfort.
- Hi-Vis outer and Navy inner.
- Detachable quilted sleeves for all year round wear.
- Multi pockets for storage.
- Elasticated front hem for added comfort.
- Stud fastening at sides for adjustment.
- Lighter weight garment with heat applied reflective tape.

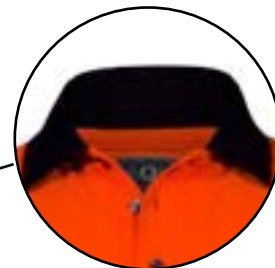
**Conforms to:** BS EN ISO 20471:2013 Class 2 &  
Orange also Conforms to RIS-3279-TOM



**AQUA**

RAIL CLOTHING

PS009-0000-026



Sizes available: SML- 6XL



**Aqua Classic Short Sleeve Hi-Vis polo shirt**



- 170gsm.
- Polyester Bird eye knit fabric.
- Two bands to body, sleeves and shoulder.
- Navy contrast knitted collar & cuffs.
- Front 3 button placket.



BS EN ISO 20471:2013

Conforms to



BS EN ISO 20471:2013

(Hi-Vis Yellow does not conform to RIS-3279-TOM)

**Conforms to:** BS EN ISO 20471 Class 2, BS EN 340 & RIS-3279-TOM.

# AQUA

PS131-0000-026



Protection  
UPF 50+



Protection  
UPF 50+

Sizes available: SML- 4XL



## Aqua Premium Long Sleeve Hi Vis Polo Shirt

- High visibility bird eye knit polo shirt
- Made with Recycled Polyester
- Knitted contrast collar and cuff
- Front placket with zip fastening
- Mesh ventilation panels
- Chevron printed tape allows stretch
- Lightweight



**Conforms to:** BS EN ISO 20471: 2013 Class 3 Orange also conforms to RIS-3279- TOM



# AQUA

PS010-0000-026

RAIL CLOTHING



Sizes available: SML- 4XL



## Aqua Classic Long Sleeve Hi-Vis Polo Shirt



- Polyester Bird Eye knit fabric.
- Two body, sleeves and shoulder bands.
- Navy contrast knitted collar & cuffs.
- Front 3 button placket.



**Conforms to:** BS EN ISO 20471 Class 3, BS EN 340 & RIS-3279-TOM.



BS EN ISO 20471:2013



BS EN ISO 20471:2013

# WELDING PROTECTION



Introducing Our welding protection range at Future Garments is designed to provide maximum safety and durability for professionals working in demanding environments.

We offer a comprehensive selection of premium quality welding clothing and Personal Protective Equipment (PPE), ensuring that you are well-equipped to handle the challenges of any welding task.

Each piece in our welding range is meticulously crafted from A-grade quality split leather, renowned for its exceptional resistance to heat, sparks, and molten metal. The garments are Kevlar stitched, providing superior strength and durability to withstand the rigors of daily use. Our commitment to using the highest quality materials ensures that our products offer unparalleled protection and longevity.

## STANDARDS EXPLAINED

Test	Performance Level				
	1	2	3	4	5
Abrasion Resistance (number of rubs)	100	500	2,000	8,000	
Blade Cut Resistance (index)	1.2	2.5	5	10	20
Tear Resistance (newton's)	10	25	50	75	
Puncture Resistance (newton's)	20	60	100	150	

Requirements (EN levels)	Type A	Type B (High Dexterity, Tig Welding)
<b>Abrasion</b>	<b>2</b>	<b>1</b>
<b>Cut</b>	<b>1</b>	<b>1</b>
<b>Tear</b>	<b>2</b>	<b>1</b>
<b>Puncture</b>	<b>2</b>	<b>1</b>
<b>Burning behaviour</b>	<b>3</b>	<b>2</b>
<b>Contact heat</b>	<b>1</b>	<b>1</b>
<b>Convective heat</b>	<b>2</b>	—
<b>Small splashes</b>	<b>3</b>	<b>2</b>
<b>Dexterity</b>	<b>1</b>	<b>4</b>



### ISO 11611:2007\*

This standard specifies minimum basic safety requirements and test methods for protective clothing including hoods, aprons, sleeves and gaiters. These are designed to protect the wearer's body including the head and feet and are to be worn during welding and allied processes with comparable risks. For the protection of the wearer's head and feet, ISO 11611:2007 is only applicable to hoods and gaiters. This type of protective clothing is intended to protect the wearer against spatter (small splashes of molten metal), short contact time with flame, radiant heat from the arc, and minimizes the possibility of electrical shock by short-term, accidental contact with live electrical conductors at voltages up to approximately 100 V d.c. In normal conditions of welding. Sweat, soiling or other contaminants can affect the level of protection provided against short-term accidental contact with live electric conductors at these voltages.

ISO 11611:2007 specifies two classes with specific performance requirements, i.e. Class 1 being the lower level and Class 2 the higher level.

- Class 1 is protection against less hazardous welding techniques and situations, causing lower levels of spatter and radiant heat.
- Class 2 is protection against more hazardous welding techniques and situations, causing higher levels of spatter and radiant heat.

For adequate overall protection against the risks to which welders are likely to be exposed, personal protective equipment (PPE) covered by other standards should additionally be worn to protect the head, face, hands and feet.

# STANDARDS EXPLAINED



## BS EN ISO 11612:2008\* – Protective Clothing to Protect against Heat and Flame

This standard specifies performance requirements for garments made from flexible materials, which are designed to protect the wearer's body (except the hands) from heat and/or flame. The performance requirements set out in BS EN ISO 11612:2008 are applicable to garments which could be worn for a wide range of end uses, where there is a need for clothing with limited flame spread properties and where the user can be exposed to radiant or convective or contact heat or to molten metal splashes. The following parameters are used:

Code A1 – Limited flame spread to outer surface

Code A2 – Limited flame spread to edge

Code B – Convective heat

Code C – Radiant heat

Code D – Molten aluminium splash

Code E – Molten iron splash

Code F – Contact heat

\*These standards are now updated to 2015 and all Future Garments products will meet the requirements of the 2015 Standards.



## Welding Gloves:

### BS EN 388:2016 - 6.1 Resistance to abrasion

The abrasion test, tests the abrasion resistance of material taken from the palm of a glove.

### BS EN 388:2016 - 6.2 Blade Cut Resistance (Coupe test)

This test is based on the number of cycles required to cut through the sample at a constant speed and mass when compared to the cut resistance of a standard material e.g. specified cotton canvas.

### BS EN 388:2016 - 6.4 Tear Resistance

The test assesses the tear resistance and is based on the amount of force, in Newtons required to tear the sample.

### BS EN 388:2016 - 6.5 Puncture Resistance

The test assesses the puncture resistance is based on the amount of force, in Newtons required to pierce the sample with a standard sized nail/stylus.

### BS EN 388:2016 - 6.3 Cut Resistance (TDM High Cut Test)

The test assesses the amount of force in newtons required to cut through material unlike the coupe test this is a static not revolving blade. Result is reported as per table 2- Levels of performance for materials tested with EN ISO 13997 and are typically reported as Level A (2N) , B(5N) , C(10N).....

### BS EN 12477

This standard describes how the gloves are designed to provide protection for both hand and wrist while welding or similar work, this is a combination from testing BS EN 388 and BS EN 407. Welding gloves shall provide resistance to small splashes of molten metal, short exposure to convective heat, to radiant heat and to contact heat. The welding gloves shall give protection from mechanical risks as well.

Type A refer to gloves that shall provide a higher protection against heat.

Type B refer to gloves that provide a lower protection against heat but they are more flexible and pliable.



## WELDING PROTECTION



**JK269-0000-287**

Sizes available: S- 4XL



### Comfort FR Cotton/Leather Welders Jacket



- Lightweight leather & FR treated cotton fabric.
- Designed for maximum comfort and safety.
- Cow split leather collar, front, sleeves & shoulders.
- FR Cotton back.
- Kevlar stitched.
- Concealed internal lower patch pocket.
- Stand up collar with touch & close fastening.
- Front concealed stud fastening.
- Excellent heat, flame and weld spark resistance
- Do not wash.

**Conforms :** BS EN ISO11611:2015 Class 2 A1 (FRONT),  
Class 2 A1 (BACK)



**JK936-0000-036**

Sizes available: S- 4XL



### Tan Split Leather Welders Jacket



- Designed for maximum comfort and safety.
- Durable split leather.
- Concealed stud front reinforced plackets.
- Full Kevlar stitching.
- Stand up collar with touch & close fastening.
- FR Cotton lined inner collar.
- Concealed internal lower patch pocket.
- Do not wash.

**Conforms to:** BS EN ISO11611 Class 2 A1



**TR615-0000-036**

Sizes available: S- 4XL



### Tan Split Leather Welders Trousers



- Designed for maximum comfort and safety.
- Durable split leather.
- Full Kevlar stitching.
- Brass zip and stud front fastening.
- Two side pockets with side access.
- Two rear patch pocket with touch & close fastening.
- Rule pocket with touch & close fastening to back right thigh.
- Do not wash.

**Conforms to:** BS EN ISO11611 Class 2 A1

# WELDING PROTECTION

One Size



## Heavy Duty Welders Sleeve

- Tan split leather welding sleeve.
- Elasticated cuff and upper arm with touch & close fastening for extra adjustment.
- Contrast cuff ends .
- Packed as pairs.



**Conforms to:** BS EN ISO 11611 Class 2 A1

**GL137-0000-036**



**AP010-0000-036**

One Size



## Tan Welders Apron - 60cm x70cm

- Tan split leather welders apron.
- Offers protection from waist to shin.
- Adjustable straps with buckle fastening.
- 60cm length x 70cm width.
- Kevlar stitched.
- Do not wash.



**Conforms to:** BS EN ISO11611 Class 2 A1

## WELDING PROTECTION



One Size **AP009-0000-036**



### Tan Welders Apron - 100cm x 80cm



- Tan split leather welders apron.
- Offers protection from the chest to mid-calf.
- Adjustable straps at back and neck with buckle fastening.
- 100cm length x 80cm width.
- Kevlar stitched.
- Do not wash.



**Conforms to:** BS EN ISO11611 Class 2 A1

# WELDING PROTECTION

One Size **AC211-0000-282**



## Leather Welders Gaiters - Long

- Tan split leather upper & natural split leather lower.
- Foot to shin protection.
- Kevlar stitching.
- Leather grain straps with touch & close fastening.
- Elastic under foot for easy wear.
- Do not wash.



**Conforms to:** BS EN ISO11611 Class 2 A1



One Size **AC205-0000-282**



## Leather Welders Gaiters - Short

- Tan split leather upper & natural split leather lower.
- Lower leg protection.
- Kevlar stitching.
- Touch & close fastening.
- Elastic under foot for easy wear.
- Do not wash.



**Conforms to:** BS EN ISO11611 Class 2 A1



**EP097-0000-000**

One Size



**Ambassador Hand Shield**

- Manufactured from polypropylene.
- Supplied with 90 x 100mm Mineral lens in shade 10.



**Conforms to:** BS EN 175



**EP235-0000-005**

One Size



**Horizon Welding Helmet**



- Ideal functionality, performance and comfort.
- Offers exceptional reliability to all types of welders.
- ADF lens offers a high clarity of view, resulting in an excellent optical quality utilising the latest ADF technology.
- Lightweight shell design. High impact resistance Nylon.
- 98x48mm 1/1/1/2 – 9-13 ADF.
- True colour ADF technology.
- Externally activated grind mode button.
- Ergonomic multiple adjustable headgear, with rear pivot pad.

**Conforms to:** DIN BS EN379, AS/NZS 1338.1, ANSI Z87.1, CSA Z94.3





**RP135-0000-005-000**

### Momentum PAPR unit complete

Features intelligent charger comfort Pad, P3 filter, and pre-filter.  
The unit features the latest in PCB Board technology, allowing the welder to adjust the air flow from 180 L/min to 210 L/min to suit the environment and application. This is highlighted by an LED airflow indicator on top of the unit.

The Momentum Air is equipped with audio & visual blocked filter and low battery alarms, offering extra safety for the welder.



### User adjustable air flow 180/210 L/min

Li-ion battery pack (up to 8hr duration @ 210L/min)  
P3 filter and pre-filter  
International intelligent charger (interchangeable pins)  
Audio/visual blocked filter and low battery alarms  
LED air flow indicator  
Supplied with 'new style' comfort pad

**Conforms to:** BS EN 12941 TH3P



**RP140-0000-0000-000**

### Momentum Kit Bag includes:

- Horizon helmet prepared for air
- Momentum PAPR unit with comfort pad
- Hose with Proban hose cover
- Battery & intelligent charger
- P3 Filter
- Pre-filter

**RP138-0000-005-000**



### Horizon helmet prepared for air.

- Horizon helmet prepared for air
- Momentum PAPR unit with comfort pad
- Hose with Proban hose cover
- Battery & intelligent charger
- P3 Filter
- Pre-filter



One Size **EP261-0000-005-000**



### Grinding Visor: Flip-up face shield (hard hat not included)



Flip-up face shield with anti-fog, anti-scratch, impact resistant clear visor. Large high quality visors with the highest optical performance, bringing high-resolution and clear field of view.



Available in clear and UVIR variants.

Grinding visor can also be used in combination with



### Features & Benefits

- High impact visor design. EN166 B & EN 170
- High resolution optical class visor
- Ergonomic design with comfort headgear
- Protection against UV/IR, with high heat resistance
- Shade 3 & 5 lens available
- 212 x 220 x 1.8mm Polycarbonate lens
- Hard hat option available (non air) by ordering the hard hat and adapter separately (see spares section)

### Specifications / Technical Data

- Face Shield: Three-dimensional curved design
- Dimensions of PC Lens (HxWxT): - 212 x 220 x 1.8mm
- Weight – PC Lens: 130g
- PC Lens Shade: Transparent / shade 3 & 5
- Standards: CE, ANSI, CSA, AS/NZS



One Size **RP135-0000-005-000**



### Grinding Screen prepared for air



The Momentum Air PAPR (Powered Air Purifying Respirator) system combined with the Grinding Visor helmet, offers heavy duty protection whilst grinding



- User adjustable air flow 180/210 L/min



- Li Ion battery pack

- (up to 8hr duration @ 210L/min)

- P3 filter and pre-filter

- International intelligent charger

- (interchangeable pins)

- Audio/visual blocked filter and low battery alarms

- LED air flow indicator

- Supplied with comfort pad

- CE EN 12941 TH3P with

- Momentum Air



One Size **EP263-0000-005-000**



#### Quantum helmet complete

The Quantum helmet benefits the areas of welding preparation and improves grinding functionality. It does this by allowing a flip mechanism, which houses a ADF filter, to be lifted exposing a larger viewing/grinding visor window.



This allows the welder to remain fully protected with having to lift the entire helmet shell up exposing the face. This helmet is also available with a PAPR and hard hat system.



#### Features & Benefits

- High impact shell design. EN175 B & ANSI Z87+
- impact test
- True colour ADF technology
- Side windows (shade 5) enhancing surrounding vision
- Ergonomic multiple adjustable headgear, with rear pivot pad and upright lock position
- 107x75mm view 1/1/1 – 5-13 ADF – Best optical class
- Clear interface design – x 3 mode options:
- Grind, Cutting and Weld
- Easy operation – Soft touch select buttons for function / mode adjustment



One Size **RP157-0000-005-000**  
Quantum helmet prepared for air

One Size **RP158-0000-005-000**



#### Quantum helmet with PAPR kit bag complete



The Quantum Air PAPR (Powered Air Purifying Respirator) system combined with the Quantum helmet, offers heavy duty protection from welding fume and dust when welding, gouging and grinding.



The unit features the latest in PCB Board technology, allowing the welder to adjust the air flow from 170 L/min to 210 L/min to suit the environment and application. This is highlighted by an LED air flow indicator on top of the unit. The Quantum Air is equipped with audio and visual blocked filter and low battery alarms, offering extra safety for the welder.



#### Features & Benefits

- User adjustable air flow 170/210 L/min – 2 stages
- Li ion battery pack (up to 9hr duration @ 170L/min)
- Fast charging Lithium-Ion battery (1 hour)
- P3 filter and pre-filter
- Intelligent charger (EU & UK pins)
- Audio and Visual "vibration" blocked filter and low battery alarms
- LED air flow indicator
- Supplied with 'comfort pad' and shoulder harness
- CE EN 12941 TH3P with Quantum helmet





## WELDING PROTECTION



**HT041-0000-005-000**

One Size



### Phoenix-FR Antistatic Balaclava

Inherently flame retardant antistatic balaclava.

- To be worn underneath a welding helmet to give full protection.
- Fits around head and neck.



**Conforms to:** BS EN ISO 11612:2015 (A1 B1 C1), IEC 61482:2009, BS EN 61482-1-2:2007(CLASS 1), BS EN 61482-1-1:2009 (Ebt=5.9 Cal/cm2)



**HT040-0000-255-000**

One Size



### FR Cotton Welding Hood

- Flame retardant welding hood.
- Treated FR cotton hood.
- Covers head, neck, nape and shoulders.
- Front touch & close fastening.
- Fully bound edge with contrast binding.



**Conforms to:** BS EN ISO 11611 Class 1 A1 & BS EN ISO11612 A1 B1 C1:2008



One Size

### FR Welders Helmet Liner

- Flame retardant insulated helmet liner.
- Front touch & close fastening.
- Fully bound edge with contrast binding.
- Elastication across the back of the liner for added comfort.

Fabric is FR treated to meet BS EN ISO11612



# CORPORATE WORKWEAR

Introducing our Aqua & Trakman corporate workwear collection, expertly designed to meet the increasing demands of today's working professionals.

Our range offers stylish and functional industrial clothing tailored for both men and women, ensuring that you present a polished and professional appearance in any workplace environment.

Our corporate workwear includes a diverse selection of garments, from elegant blouses, tailored skirts, and sophisticated dresses for women, to sharp shirts, smart trousers, and versatile blazers for men. Each piece is crafted from high-quality materials that provide durability, comfort, and ease of care, allowing you to maintain a pristine look throughout your busy day.

## JACKETS

Sizes available: XS- 5XL



### Trakman Executive Waterproof Jacket



- Pongee PVC outer fabric.
- Padded jacket providing warmth to the wearer.
- Fold away hood concealed into the collar.
- Stand up collar with a fleece lined inner.
- Front stormflap with touch & close fastening.
- Concealed front zip fastening.
- Two front jetted pockets with touch & close fastening.
- Inner pockets for storage.
- Inner elasticated storm cuff.
- Draw cord hem for adjustment.

Conforms to: BS EN343:2003+A1:2007 Class 3:1



JK171-0000-005

JK171-0000-024



JK012-0000-005



JK012-0000-024

Sizes available: SML- 5XL



### Waterproof Storm King Jacket



- PU coated polyester outer.
- Brushed cotton checkered body lining.
- Stand up collar with corduroy inner lining.
- Fold away hood concealed into the collar.
- Raglan sleeves with inner knitted storm cuffs.
- Two angled chest pockets.
- Two lower bellowed pockets with side hand warmer access.
- Draw cord at waist to adjust the fitting.
- Front stud & zip fastening.
- Inner pockets for storage.
- Two back vents with stud fastening.

Conforms to: BS EN343:2003+A1:2007 Class 3:1

## JACKETS



**JK013-0000-024**

Sizes available: XS- 7XL



### Lapka Flight Jacket



- Water & wind proof jacket.
- Polyester microfibre outer.
- Fleece lined body providing warmth.
- Single stormflap with zip & stud fastening.
- Lightly padded collar with inner fleece lining.
- Half elasticated adjustable cuff with touch & close fastening.
- Two external angled pockets with zip fastening.
- Zipped outer sleeve pocket.
- Elasticated hem for comfort.
- Multiple inner pockets.



EN343:2003+A1:2007

Conforms to: BS EN343:2003+A1:2007 Class 3:1



**JK013-0000-005**



## JACKETS & BODYWARMER



FJ915-0000-005

- FJ915-0000-005
- FJ915-0000-010
- FJ915-0000-024



Sizes available: XS- 4XL



### Trakman Soft Shell Jacket



- Polyester/elastane woven surface fabric.
- Stylish breathable, windproof and water resistant.
- Performance membrane.
- Stand up collar with a under placket.
- Front zip fastening.
- Right chest zipped map pocket for convenient storage.
- Micro fleece inner providing warmth.
- Mesh lined front panels.
- Adjustable cuffs with touch & close fastening.
- Two lower front zip pockets.
- Curved hem with draw cord.



BW031-0000-024



BW031-0000-005

Sizes available: SML- 4XL



### Trakman Body Warmer



- Polyester cotton body warmer.
- Padded garment providing warmth to the wearer.
- Mandarin collar.
- Front zip and studded flap fastening.
- Elasticated armholes providing wearer with comfort.
- Right breast pocket with touch & close fastening & 3 outside pocket divisions.
- Front bellowed pockets with touch & close fastening and side hand warmer access.
- Elasticated sides providing comfort.
- Curved back hem.

## JUMPERS & FLEECES



**SS062-0000-005**

Sizes available: XS- 6XL



### Aqua 1/4 Zip Sweatshirt

- 320gsm Premium polyester / cotton brushed fabric.
- Ribbed collar with self fabric panels at front for comfort.
- Knitted rib cuffs , neck and waistband.
- Concealed front zip.
- Twin needle coverseam stitching for smart appearance.
- Inset sleeves.



**SS062-0000-024**

Sizes available: XS- 5XL



### Aqua Long Sleeve Sweatshirt

- Polyester/cotton sweatshirt.
- Crew neck with double stitched neckline.
- Ribbed cuffs and hem providing comfort to the wearer.
- Double stitched sleeve and waist.



- SS062-0000-005
- SS062-0000-006
- SS062-0000-037
- SS062-0000-029
- SS062-0000-028
- SS062-0000-019
- SS062-0000-009
- SS062-0000-024



**FJ001-0000-010**

Sizes available: XS- 6XL



### Aqua Heavy Weight Fleece Jacket

- Polyester heavyweight microfleece.
- Front self colour zip.
- Internal storm cuffs.
- High collar for protection against all weather conditions.
- Two external slightly angled zipped pockets.
- Elasticated draw cord hem with spring toggles.
- Please note Charcoal fleece is a lighter weight fleece.
- Interactive fleece.



**FJ076-0000-216**

Sizes available: XS- 5XL



### Premium Aqua Soft Shell Fleece

- Premium tri-laminate soft shell.
- Fleece lined collar for comfort and warmth.
- Seamless front chest pocket.
- Two lower pockets with zip fastening.
- Touch & close adjustable cuffs.
- Drawstring hem for an adjustable fitting.
- Reflective piping.
- Underarm vents with open mesh and two way underarm zip fastening.



## RAIN MASTER RANGE



- PS017-0000-024
- PS017-0000-009
- PS017-0000-019
- PS017-0000-028
- PS017-0000-031
- PS017-0000-037
- PS017-0000-006
- PS017-0000-005
- PS017-0000-010

**PS017-0000-010**

Sizes available: XS - 7XL



### Aqua Pique Knit Polo Shirt

- Premium poly/cotton fabric.
- Contoured ribbed collar.
- Taped back neck.
- Three button placket front.
- Contoured ribbed cuffs.
- Saddle shoulder polo shirt.
- Side slit on lower sides of hem for comfort.

## RAIN MASTER RANGE



TS029-0000-024

- TS029-0000-031
- TS029-0000-005
- TS029-0000-006
- TS029-0000-037
- TS029-0000-029
- TS029-0000-028
- TS029-0000-019
- TS029-0000-009
- TS029-0000-024

Sizes available: SML - 5XL



### Aqua Short Sleeve T-Shirt

- 100% Cotton, lightweight T-shirt.
- Tubular body.
- Crew neck with self fabric rib.
- Self-fabric back neck tape.
- Twin needle stitching.



TS071-0000-010

Sizes available: XS - 5XL



### Premium Aqua Short Sleeve T-Shirt

- 100% Cotton, lightweight T-shirt.
- Side slits on lower sides of T-shirt for comfort.
- Crew neck with self fabric rib.
- Self-fabric back neck tape.



## RAIN MASTER RANGE



**BS024-0000-010**

Sizes available: 36"- 58"  
Available in Short, Regular and Tall



### Aqua Technicians Coverall

- Premium polyester/cotton work wear coverall.
- Racing collar with touch & close fastening for ease.
- Concealed zip & stud front fastening.
- Two slanted hip pockets with side access.
- Two chest patch pockets with a concealed stud fastening.
- Action back with elasticated back waistband for comfort.
- External Knee pad pockets.
- Adjustable cuffs with touch & close fastening.
- Rule pocket to back right thigh.
- Two rear pockets.



**BS004-0000-024**

Sizes available: SML- 4XL  
Available in Regular and Tall



### Aqua Polyester Cotton Boiler Suit

- Polyester/cotton fabric.
- Concealed press stud front fastening.
- Action back.
- Elasticated back waistband providing comfort to the wearer.
- Two chest patch pockets with a concealed stud fastening.
- Two slanted hip pockets with side access.
- Quick access pen pocket on left sleeve.
- Two rear patch pockets with a concealed stud fastening.
- Rule pocket to back right thigh.
- External knee pad pockets.



## THERMAL RANGE



**TS002-0000-033**

Sizes available: SML- 3XL



### Thermal Long Sleeve Top

- Self fabric neck and hem.
- Worn under normal clothing.
- 175gsm fabric.



**TR032-0000-033**

Sizes available: SML- 3XL



### Thermal Bottom

- Full elasticated waist and ribbed ankles.
- Worn under normal clothing.
- 175gsm fabric.

## TRAKMAN SHIRTS



**SH224 -0000-033**

Sizes available: SML (14.5) - 5XL (21.5)



### Trakman Men's Long Sleeve Shirt



- 100% Cotton premium shirt.
- Classic collar with inner fusing.
- Double yoke.
- Buttoned front fastening for ease.
- In-set long sleeve shirt.
- Double cuff with two buttons for adjustment.
- Grey contrast on collar and cuffs for a stylish look.
- Stylish slightly curved hem.



**SH225 -0000-033**

Sizes available: SML (14.5) - 5XL (21.5)



### Trakman Men's Short Sleeve Shirt



- 100% Cotton premium shirt.
- Classic collar with inner fusing.
- Double yoke.
- Buttoned front fastening for ease.
- In-set long sleeve shirt.
- Grey contrast on collar and cuffs for a stylish look.
- Stylish slightly curved hem.

# AQUA



## LONG SLEEVE:

- ☐ SH058-0000-033
- ☒ SH058-0000-031

## SHORT SLEEVE:

- ☐ SH059-0000-033
- ☒ SH059-0000-031

(P)

Sizes available: SML (14.5) - 5XL (21.5)



### Aqua Pilot Shirt

- Polyester/Cotton fabric.
- Classic collar with inner fusing.
- Front button fastening.
- Two front pleated patch pockets with button fastening.
- Long sleeve shirt has a double button cuffs for adjustment.
- Short sleeve shirt has an open cuff.



## LONG SLEEVE:

- ☐ SH115-0000-033
- ☒ SH115-0000-031

## SHORT SLEEVE:

- ☐ SH121-0000-033
- ☒ SH121-0000-031

Sizes available: SML (14.5) - 5XL (21.5)



### Aqua Shirt

- Premium Poly/Cotton fabric.
- Cutaway collar with inner fusing.
- Double yoke.
- Patch pocket to the left chest.
- Buttoned front fastening for ease with Aqua pearlescent buttons.
- Long sleeve shirt has a double button cuffs for adjustment.
- Short sleeve shirt has an open cuff.



## LONG SLEEVE:

- ☐ SH176-0000-033
- ☒ SH176-0000-031

## SHORT SLEEVE:

- ☐ SH175-0000-033
- ☒ SH175-0000-031

Sizes available: SML (14.5) - 5XL (21.5)



### Aqua Oxford Shirt

- Cotton polyester Oxford weave fabric.
- Hard wearing shirt with a anti-crease finish.
- Button down collar.
- Buttoned front fastening for ease with Aqua pearlescent buttons.
- Patch pocket to the left chest.
- Double yoke.
- Convenient hanging loop at the back.
- Stylish slightly curved hem.
- Long sleeve shirt has a double button cuffs for adjustment.
- Short sleeve shirt has an open cuff.





**AQUA**

CORPORATE WORKWEAR



**TR221-0000-010**

Sizes available: 28" - 52"  
Available in Short, Regular and Tall



**Aqua Charcoal Cargo Work Wear Trousers**

- 245gsm Premium poly/cotton cargo trouser.
- Internally elasticated waistband for added comfort.
- Tunnel belt loop at the back of the waistband.
- Concealed front hook & bar fastening with a grown on flap with stud fastening.
- Two rear back pockets.
- Two large cargo pockets to each thigh.
- Right thigh cargo pocket comes with a mobile phone pocket & pen pocket access.
- External knee pad pockets.



**TR162-0000-010**

Sizes available: 28" - 54"



**TR162 -0000-005**

**Aqua Cargo Shorts**

- 245gsm Polycotton work wear shorts.
- Side cargo pocket with flap and touch & close fastening.
- Back pockets for extra storage.
- Internally elasticated waist for comfort.
- Tunnel belt loop at back.
- Concealed jean style button & zip.



**TR300-0000-006**



**TR300-0000-005**

Sizes available: 28" - 52"  
Available in Regular and Tall



**Aqua Work Wear Trousers**

- 245 gsm Premium hard wearing poly/cotton fabric
- Concealed hook and bar front fastening.
- Side slanted hip pockets.
- Rear jettied pocket with button fastening.
- Sewn-in crease at the front.
- Reinforced crotch seams.



**TR356-0000-005**



**TR356-0000-024**

Sizes available: 28" - 52"  
Available in Short, Regular and Tall



**Aqua Classic Basic Cargo Work Wear Trousers**

- 245 gsm Poly/cotton cargo trouser.
- 5 Wide belt loops at the waistband.
- Concealed front stud and zip fastening.
- Two side hip pockets.
- Two rear back pockets.
- Two large cargo pockets to each thigh.
- External knee pad pockets.

# AQUA



TR601-0000-024



TR601-0000-005

Sizes available: 28" - 54"  
Available in Regular and Tall



## Aqua Action Trousers



- Hard wearing poly cotton fabric.
- Heavyweight trouser.
- Front single button & zip fastening.
- 7 Belt loops.
- Reinforced seat area for durability.
- Reinforced external knee pad pockets with pillow bottom opening.
- Multiple zipped pockets.
- One cargo pocket with touch & close fastening.

## AQUA



TR002-0000-005



TR002-0000-024

Sizes available: 28" - 52"  
Available in Short, Regular and Tall



### Aqua Cargo Work Wear Trousers



- Premium poly/cotton cargo trouser.
- Internally elasticated waistband for added comfort.
- Tunnel belt loop at the back of the waistband.
- Concealed front hook & bar fastening with a grown on flap with stud fastening.
- Two rear back pockets.
- Two large cargo pockets to each thigh.
- Right thigh cargo pocket comes with a mobile phone pocket & pen pocket access.
- External knee pad pockets.

Sizes available: 28" - 52"  
Available in Short, Regular and Tall



### Aqua Cargo Work Wear Trousers with Reflective Tape



- Premium poly/cotton cargo trouser.
- Internally elasticated waistband for added comfort.
- Tunnel belt loop at the back of the waistband.
- Concealed front hook & bar fastening with a grown on flap with stud fastening.
- Two rear back pockets.
- Two large cargo pockets to each thigh.
- Right thigh cargo pocket comes with a mobile phone pocket & pen pocket access.
- External knee pad pockets.
- Two reflective bands to each leg.



TR046-0000-005



TR046-0000-024

# AQUA



**TR016 -0000-006**

Sizes available: 28" - 52"  
Available in Short, Regular and Tall



## Aqua Cargo Ballistic Trouser



- Premium poly/cotton cargo trouser.
- Premium hardwearing ballistic fabric.
- Protection from ankle to thigh.
- Internally elasticated waistband for added comfort.
- Tunnel belt loop at the back of the waistband.
- Concealed front hook & bar fastening with a grown on flap with stud fastening.
- Two rear back pockets.
- Two large cargo pockets to each thigh.
- Right thigh cargo pocket comes with a mobile phone pocket & pen pocket access.
- External knee pad pockets.



**AQUA**

CORPORATE WORKWEAR



TR371-0000-211



TR371-0000-208

Sizes available: 28" - 52"  
Available in Short, Regular and Tall



#### Aqua Cargo Ballistic Trousers



- Premium poly/cotton cargo trouser.
- Premium hardwearing ballistic fabric.
- Protection from ankle to thigh.
- Internally elasticated waistband for added comfort.
- Tunnel belt loop at the back of the waistband.
- Concealed front hook & bar fastening with a grown on flap with stud fastening.
- Two rear back pockets.
- Two large cargo pockets to each thigh.
- Right thigh cargo pocket comes with a mobile phone pocket & pen pocket access.
- External knee pad pockets.



BS EN ISO 20471:2013  
Conforms to  
EN 15761:2014



BS EN ISO 20471:2013

# WOMENS CORPORATE WORKWEAR



Introducing our Aqua & Trakman women's corporate workwear collection, it is designed to meet the increasing demands of professional women, offering a wide range of stylish and functional garments tailored for the modern workplace.

With a focus on both form and function, our collection includes everything from elegant blouses to smart trousers. Each piece is meticulously crafted to ensure a perfect fit, providing comfort and confidence throughout the workday. The garments are made from high-quality materials that are not only durable but also easy to care for, ensuring that you always look polished and professional

## AQUA WOMENS

JP008-0000-024



JP008-0000-005

Sizes available: XXS- 5XL



### Aqua Women's Cardigan

- 100% Acrylic fibre and rib.
- V neck cardigan.
- 7 button front fastening.
- Flattering fit.
- Raglan long sleeve.



PS178-0000-005

PS178-0000-024

Sizes available: XS (8) - 3XL (20)



### Aqua Women's S/S Polo Shirt

- Premium polyester/cotton fabric.
- Knitted collar with back neck binding for comfort.
- Open cuff with detail stitching.
- Shaped side panels for more fitted appearance.
- Three button front fastening.
- Stylish curved hem.



## TRAKMAN BLOUSE



SH226-0000-033

Sizes available: 8- 22



### Trakman Women's Long Sleeve Blouse



- 100% Cotton premium blouse.



- Open V neckline.



- Shaped side panels for fitted look.

- Buttoned front fastening for ease.

- In-set long sleeve blouse.

- Adjustable cuffs for ease.

- Chic grey contrast on collar and cuffs.

- Stylish slightly curved hem.



SH227-0000-033

Sizes available: 8- 22



### Trakman Women's Short Sleeve Blouse



- 100% Cotton premium blouse.



- Open V neckline.



- Shaped side panels for fitted look.

- Buttoned front fastening for ease.

- In-set long sleeve blouse.

- Chic grey contrast on collar and cuffs.

- Stylish slightly curved hem.



## TROUSERS



**TR101-0000-024**

Sizes available: XXS (6) - 6XL (26)  
Available in Short, Regular and Tall



### Womens Work-Wear Trouser



- Premium polyester/cotton fabric.
- Elasticated back for comfort.
- Concealed front zip & button fastening.
- Two side hip pockets.
- Sewn in crease at the front.
- Reinforced crotch seams.

Sizes available: 8 - 28  
Available in Short, Regular and Tall



### Womens Cargo Trouser

- Premium polyester/cotton fabric.
- Elasticated back for comfort.
- Front zip & button fastening.
- SevBS EN belt loops with a large waistband at the back.
- Two side hip pockets.
- Two bellowed cargo pockets to each thigh.
- Rear patch pocket.

**TR575-0000-005**



**TR575-0000-024**



# ACCESSORIES



Introducing Our range of accessories is designed to complement and enhance the functionality of your workwear, ensuring that every detail is covered for optimal performance and style. From practical additions to essential gear, our accessories cater to the diverse needs of working professionals across various industries.

## ACCESSORIES



**AC017-0000-005**

One Size

### Hi-Vis Holdall

- 420D Nylon fabric.
- Holdall has a capacity of 49 litres.
- Dimensions: 59cm x 33cm x 29cm.
- Hi-Vis holdall incorporates reflective tape for extra visibility.
- Detachable & adjustable shoulder strap.
- Two side handles.
- Internal pocket with zip fastening for storage.



**HH101-0000-211**

- HH101-0000-211
- HH101-0000-024
- HH101-0000-005

### Rhino-Tec Bump Cap

- Sleek design.
- Inner terry toweling sweatband.
- 5cm Peak length.
- Open mesh panels for breathability.
- Large front panel for branding.
- Elasticated adjustable strap at the back.
- Reflective piping for visibility.
- Removable cap insert for added protection.

Conforms to: BS EN812:2012



- HT009-0000-026
- HT009-0000-034
- HT009-0000-024
- HT009-0000-005
- HT009-0000-006

One Size

### Aqua Knitted Beanie Hat

- 100% Acrylic fabric.
- Azo free.
- 2 Layer beanie hat.
- Folded hem.



**HT013-0000-005**

**HT013-0000-006**

**HT013-0000-024**

One Size

### Aqua Baseball Cap

- 5 Panel cap made from 100% Cotton.
- Pre-curved peak.
- Adjustable strap complete with fastener.
- Eyelets for ventilation on both sides of cap.



**AC010-0000-005**

One Size

### Aqua Boot Bag

- Durable nylon PU coated fabric.
- Adjustable shoulder strap c/w buckle.
- 2 way zips for easy access.
- I.D patch complete with name tag.
- Helmet carrier positioned on the outer side of boot bag complete with elasticated strap and buckle.



**AC001-0000-024**

**AC001-0000-005**

One Size

### Aqua Jumbo Holdall

- Durable polyester & nylon coated fabric.
- Detachable shoulder strap c/w buckle.
- Two way zips for easy access.
- ID patch complete with a name tag.
- Extra large capacity.
- 3 external compartments.



## ACCESSORIES



**AC024-0000-000**

One Size



### Men's Sea-boot Socks

- 50% Wool, 50% Polypropylene.
- General Purpose Industrial Grade.
- CE Marked.



**AC024-0000-228**

Sizes available: 8 to 12



### Titan Thermal Work Socks

- 95% Bamboo, 5%Spandex.
- Single knit construction.



**AC018-0000-000**

Size available: 21.3cm x 16.5cm



### Knee Pad Inserts

- 100% Polyethylene.
- Specially shaped to offer maximum protection to the knee.
- Ergonomically designed knee pad.
- Fits all Workwear.
- Soft and flexible EVA material.
- Maximum protection to the knee.
- Easily cut with scissors to fit smaller trouser.



**AC153-0000-000**

One Size



### Gel Filled Kneepads

- Anti compression gel foam for comfort.
- Hard wearing composite front cover for extended life.
- Anti-slip grip design.
- Large hook and loop single strap.



# HEAD PROTECTION



Introducing Our Rhino Tec range of head protection, it is designed for both comfort and durability, ensuring maximum safety in demanding environments.

Essential for any workplace, our head protection solutions cater to those who need reliable and comfortable gear for all-day wear. Standard budget hard hats may be suitable for short-term use, but for prolonged wear, comfort is paramount.

The Rhino Tec range features a soft, lightweight Terylene harness and Actfresh treated foam sweatbands, providing superior comfort without compromising on safety. Whether it's for daily use or specific high-risk tasks, our head protection gear offers the ultimate balance of comfort, durability, and protection, ensuring your workforce stays safe and productive.

# STANDARDS EXPLAINED

## BS EN standards - safety helmets

The traditional safety helmet is generally covered by BS EN397:2012 which outlines the properties of the helmet and also how it is marked. This should include such details as the manufacturer, date of manufacture, size range and the shell material. A new helmet will also contain additional information on correct usage, adjustments etc. In the form of a User Information Sheet. More specialised helmets may also carry additional markings and a summary is included below.

EN 397:2012	Industrial Safety Helmets should be marked on the shell.
EN 397:1995	Standard number, maker and model identification.
	Size or size range (cm) (on both shell and harness).
	Year and quarter (or month) of manufacture.
	Informative label with specified wording.
	Shell material, eg ABS, PC, HDPE etc.
Optional Markings	-20 C or -30 C - tested at very low temperature.
	+ 150 C - tested at high temperature
	440 V a.c. - tested for electrical insulation
	LD - tested for lateral deformation
	MM - resists molten metal splash

EN 812:2012	Industrial Bump Caps should be marked.
EN 812:1998	Standard number, maker and model identification.
	Size or size range (cm) (on both shell and if fitted, harness).
	Year and quarter (or month) of manufacture.
	Informative label with specified wording.
	-20 C or -30 C - tested at very low temperature.
Optional Markings	F - resistant to flame
	440 V a.c. - tested for electrical insulation

## BS EN standards - industrial bump caps

While sometimes incorrectly described as safety helmets this type of protection is very different and conforms to BS EN2012. While some designs can look similar to safety helmets, the most popular styles resemble a baseball cap. The caps can be embroidered with company names and logos and are more comfortable to wear than safety helmets. Please note bump offer virtually NO Protection against falling objects and should not be used where there is any risk of being hit by falling items. They can be useful however, if a worker is likely to bump their head on static objects and to promote company identity.

## Helmet maintenance

While the relatively low costs involved in purchasing safety helmets have almost made them a disposable product many safety helmets are used for long periods with no basic checks or maintenance. This can result in potentially unsafe products being used on a daily basis with the obvious risk of injury in the event of an accident. Some useful information on storage and maintenance is outlined below. We would recommend a documented system of checks at regular intervals and users should carry out a basic visual check on a daily basis.

- Safety helmets must be maintained in good condition.
- Be stored in a safe place, eg on a peg or in a cupboard on site;
- Not be stored in direct sunlight or in excessively hot, humid conditions because long-term exposure can weakens the shell;
- Be checked regularly for signs of damage or deterioration; This includes the shell, harness and accessories.
- Have defective parts replaced (if the model allows this). Parts from one model cannot normally be interchanged with those from another.
- Have the sweatband cleaned regularly or replaced.
- Before the safety helmet is issued to another person, it should be inspected to ensure it is serviceable and thoroughly cleaned in accordance with the manufacturer's instructions, eg using soap and water. The sweatband should always be cleaned or replaced.

## Helmet accessories

There are a range of accessories available for safety helmets, the most popular being ear muffs, visors or chin straps. It is extremely important to ensure the relevant accessory is designed for the helmet being used even if the accessory will fit there is no guarantee the level of protection will be adequate as accessories are generally ONLY tested when fitted to that particular make of helmet.

## Hearing Protection Standards:

BS EN 352 distinguishes between different types of hearing protectors and each type has to comply with the respective requirements that have been drawn up. The different types can be identified using the extension following BS EN 352, for example BS EN 352-2. Six different types are identified in total:

- BS EN 352-1 applies to ear muffs
- BS EN 352-2 applies to earplugs and otoplastics
- BS EN 352-3 is intended for variants, for example ear muffs that are attached to a helmet
- BS EN 352-4 lists the requirements for level dependent ear muffs
- BS EN 352-5 relates to active noise reduction ear muffs
- BS EN 352-6 is restricted to hearing protectors with an electrical audio input
- BS EN352-2:2002 supersedes the previous BS EN352-2:1993
- BS EN352-2:2002 tells us exactly what to do and what to test for when performing both physical and acoustic testing on hearing protectors.

## HEADWEAR



- HH100-0000-033
- HH100-0000-034
- HH100-0000-045

### HH100-0000-033

Sizes available: 50 to 64cm Adjustable

**BS EN 397**



#### Rhino-Tec Vented ABS Safety Helmet

- Image for display purpose only, supplied without the reflective strips.
- Reflective tape can be sourced separately- AC319.
- Durable lightweight ABS helmet.
- Side impact protection.
- High absorbency flock sweatband.
- Ventilation slots for increased air to flow.
- Fully adjustable ratchet system.
- 8 Point Terylene cradle suspension.
- 30mm Slots for accessories and attachments.

**Conforms to:** EN 397:2012+A1 2012 low temperature -30°C, LD



- HH102-0000-033
- HH102-0000-034
- HH102-0000-045

### HH102-0000-033

Sizes available: 50 to 64cm Adjustable

**BS EN 397**



#### Rhino ABS Safety Helmet

- Full ratchet adjustment.
- Lightweight ABS construction.
- Side impact protection.
- High absorbent Actifresh treated foam sweatband.
- Improved ventilation.
- 8 Point Terylene cradle.
- 30mm Accessory slot.

**Conforms to:** BS EN397. 440v and -30°C



- HH104-0000-033
- HH104-0000-034
- HH104-0000-045

### HH104-0000-033

Sizes available: 50 to 63cm Adjustable

**BS EN 397**



#### Rhino-Lite HDPE Safety Helmet

- Lightweight 300grm HDPE shell.
- 6 point Terylene Harness.
- 30mm accessory slot.
- Low centre of gravity.
- Fully adjustable slip harness.
- Foam sweatband with Actifresh treatment.
- Pin ratchet adjustment.

**Conforms to:** BS EN397, ANS1 Z89.1



- HH101-0000-211
- HH101-0000-024
- HH101-0000-005

### HH101-0000-211

Sizes available: 54 to 59cm Adjustable

**BS EN 812**



#### Rhino-Tec Bump Cap

- Sleek design.
- Inner terry toweling sweatband.
- 5cm Peak length.
- Open mesh panels for breathability.
- Large front panel for branding.
- Elasticated adjustable strap at the back.
- Reflective piping for visibility.
- Removable cap insert for added protection.

**Conforms to:** BS EN812:2012

# HEADWEAR



**EP020-0000-044**

One Size

**BS EN 352**



## Supemuff Ear Defender



- Economy ear defender.
- Effective economical protection.
- Lightweight defender.
- Soft hygienic ear cups.
- Hygiene kits available.

**Conforms to:** BS EN 352-1:2002, H=28 M=19 L=13  
Performance rating: SNR=23



**EP101-0000-000**

One Size

**BS EN 352**



## Rhino Helmet Mounted Hearing Protector



- Rhino ear defender to mount on to HH100.
- Medium performance.
- Large domed cup with a high performance foam inner.
- Foam filled PU soft seal cups.
- Lightweight and comfortable.

**Conforms to:** BS EN 352-3:2002, BS EN13819-1, H=32 M=26 L=19  
Performance rating: SNR=29dB

**EP103-0000-041**



One Size

**BS EN 166**



## Clear Moulded Polycarbonate Visor



- Rhino-tec visor to fit HH100.
- 8 wide angle moulded clear polycarbonate visor.
- Good all round vision.
- Durable 2m/m thick polycarbonate.
- High impact resistance.
- Class 1 optical.

**Conforms to:** BS EN166- 1B93

**EP127-0000-041**



One Size

**BS EN 166**



## 8" Moulded Polycarbonate Visor



- Lightweight polycarbonate visor to suit EP165 visor carrier.
- High impact resistance 200mm thick polycarbonate.
- Unrestricted peripheral vision

**Conforms to:** BS EN166 1B93



## HEADWEAR



**EP124-0000-041**

One Size

**BS EN 166**

### 8" Clear Acetate Visor

- Rhino 8" Clear Acetate visor to suit Rhino visor carrier & Brow guard.
- Fits EP102 or EP164 or EP165 or EP124.
- Wide vision clear visor.
- Durable 2m/m thick acetate 200m/m lens.
- Medium impact resistance.
- High Chemical resistance.

**Conforms to:** BS EN 166 1F 3



**EP165-0000-005**

One Size

**BS EN 166**

### Cap Frame Visor Carrier

- Cap frame visor carrier to suit all peaked safety helmets.
- Rim fits snugly around the helmet peak.
- Quick fit and remove spring system.
- Quick fit buttons for attaching visor.

**Conforms to:** BS EN 166 3 9 BT



**EP102-0000-000**

One Size

**BS EN 166**

### Rhino Face-Screen Carrier

- Lightweight durable polycarbonate visor carrier.
- 30m/m clip in system suitable for all Rhino brand safety helmets.
- The 30mm Clips Product code AC182 sold separately unless worn with EP101 Ear defenders.
- Easy toggle fastening for visor attachment.

**Conforms to:** BS EN166 3 9 BT



**EP164-0000-024**

One Size

**BS EN 166**

### Lightweight Brow Guard

- Light in weight for user comfort.
- Fully ratchet adjustable brow guard with comfort pad.
- Width adjustment.
- Wraparound brow guard design.
- Suitable for a wide range of visors.

**Conforms to:** BS EN166 3 9 BT

# AQUA CLASSIC



**EP122-0000-000**

One Size

**BS EN 166**



## Rhino-tec Internal Helmet Visor



- Rhino-tec retractable eye shield for HH100 safety helmet.
- Gives full eye protection while wearing safety helmet.
- Helmet prescription eyewear can be used underneath.
- Clear Eye Shield.
- Light weight polycarbonate material.
- Provides intermediate impact protection.

**Conforms to:** BS EN 166-1B



**EP121-0000-000**

One Size

**BS EN 1731**



## Rhino 8" Mesh Visor

- Rhino 8" Mesh Visor to fit our standard Rhino visor carrier.
- Hard wearing nylon coated metal mesh visor.
- Suitable for all forestry work.
- High degree of face protection without restricting the vision of the wearer.
- The mesh visor is easily and securely fitted to the carrier using turn buckles.

**Conforms to:** BS EN1731



One Size **AC200-0000-000**

## Rhino-tec Sweatband



- For use with all Rhino-Tec helmets.
- Non adhesive foam sweatband.
- Comfortable and easily applied.



**AC155-0000-000**

One Size



## LED Helmet Mount Lamp

- Powerful lightweight helmet mounted lamp.
- High light output.
- Compact size with unbreakable LEDs.
- 4 Power settings 1 or 3 or 5 LED and flash/hazard.
- Lasts up to 100,000 hours (10 years).
- Securely mounts onto safety helmet peak.

## AQUA CLASSIC



**HT003-0000-005**

One Size



### Aqua Fleece Lined Helmet Liner



- Cold weather helmet liner.
- Fits most safety helmet.
- Fits between helmet cradle and outer shell.
- Fleece lined for comfort and warmth.
- Durable lightweight outer material.
- Mesh ear panels.
- Touch & close tabs to fasten the liner to the helmet cradle.
- Front touch & close fastening.



**AC319-0000-000**

One Size



### Rhino-Tec Adhesive Reflective Kit

- Designed for application to HH100 and HH102 Safety Helmets.
- This kit allows you to increase visibility to your head protection.



**AC107-0000-024**

One Size



### Phoenix FR Helmet Liner

- Modacrylic cotton fabric.
- Inherently flame retardant and antistatic.
- Fits into any safety helmet cradle.
- Zip off chin guard.
- Provides cold weather protection.

**Conforms to:** BS EN 531 A B2 C1.



**AC013-0000-000**

One Size



### Aqua Helmet Chinstrap

- Adjustable elasticated chinstrap.
- Soft and flexible chin cup for comfort.
- Fits all Rhino-Tec safety helmets.

# EYE PROTECTION



Introducing Our Rhino Tec range of eye protection includes everything from hard-coated, anti-scratch, and anti-mist lensed spectacles to goggles designed for molten metal and liquid drop protection. The type of eye protection used depends on the specific hazards present in your workplace.

Common hazards that our eye protection can safeguard against include dust, dirt, and metal or wood chips from chipping and grinding activities. Our products also offer robust protection against splashes from chemicals, hot liquids, molten metals, detergents, cleaning liquids, solvents, and other harmful solutions.



# AQUA CLASSIC

## European Standards for Eye Protection - BS EN166:2002

All manufacturers of safety eye wear are required to have their products independently tested against a European standard. Firstly it is important to remember that both the Frame and Lens are tested, therefore both must include the CE symbol and the manufacturer's logo. The CE marking certifies that a product has met EU consumer safety, health or environmental requirements.

### Frame Markings

The frame will usually be marked on the inside of both arms. All safety frames must pass the European BS EN166 standard. This is a higher standard than the US or Asian equivalent and is considered the baseline for safety eye-wear. If BS EN166 is not stamped on the frame then it may be advisable to look elsewhere. Next will be numbers and/or letters which indicate to what degree the frames passed the BS EN166 test within various categories.

### Shape or design of the frame

- 3- Protect against liquid droplets and splashes. This is usually only found on goggles where a full seal is made around the eyes.
- 4- Protect against large dust particle over 5 microns in size.
- 5- Protect against dust and fine dust particles smaller than 5 microns.

### Strength of the frame

- S- withstand impacts against small objects traveling up to 12 meters per second
- F- withstand impacts against small objects traveling up to 45 meters per second
- B- withstand impacts against small objects traveling up to 120 meters per second
- A- withstand impacts against small objects traveling up to 190 meters per second
- T- withstand impacts at extreme temperatures

A frame can have a combination of these markings.

### Lens Markings

Unlike the frame, lenses can meet various safety standards including BS EN166, 169, 170 & 172. For obvious reasons the manufacturers are not required to print every standard on the lens but simply the degree to which they meet the standard. Using the guide below you can determine which standards they meet. Once again the manufacturers seal and the CE mark are mandatory. In addition will be a degree of solar or UV radiation protection, the optical quality and then the mechanical strength.

### Optical quality

- 1- Class 1 High optical- regular use. Refractive power of  $\pm 0.06$  dioptres.
- 2- Class 2 Medium optical- occasional use. Refractive power of  $\pm 0.12$  dioptres.
- 3- Class 3 Low optical- exceptional use. Refractive power of  $\pm 0.25$  dioptres.

Property	Details	Frame Marked	Lens Marked	What it means in practice
Optical	Class 1		1	Suitable for continuous use (all UCI eyewear is Class 1)
	Class 2		2	Suitable for intermittent use
	Class 3		3	Suitable for occasional use, but must NOT be worn continuously.
In practice only Class 1 optical glasses should be used. Class 2 & 3 are not usually seen in the UK				

Property	Details	Frame Marked	Lens Marked	What it means in practice
Optical Test	Misting/fogging		M	Resist misting and fogging
	Mechanical Damage		K	Resist surface damage by fine particles, that is antiscratch.
Many glasses may be anti-fog or anti-scratch but not carry the above markings as this is an optional test.				

# STANDARDS EXPLAINED

## Strength of the lens

- F- withstand impacts against small objects traveling up to 45 meters per second
- B- withstand impacts against small objects traveling up to 120 meters per second
- A- withstand impacts against small objects traveling up to 190 meters per second
- T- withstand impacts at extreme temperatures.

## Radiation Protection

- 2- UV Protection (EN170). The number 2 indicates the filter may effect colour recognition
- 2C or 3- UV Protection (EN170). The number 2C indicates the filter allows good colour recognition
- 4- Infrared Protection (EN171).i.e. protection from heat
- 5- Solar Protection (EN172). i.e. 100% UV sun glare protection- with no infrared (IR) protection
- 6- Solar Protection (EN172). i.e. 100% UV sun glare protection- with infrared (IR) protection

## Lens Shading

- 1.2- Allows more than 74.4% light transmission, but less than 100%
- 1.7- Allows more than 43.2% light transmission, but less than 58.1%
- 2.5- Allows more than 17.8% light transmission, but less than 29.1%
- 3.1- Allows more than 8.0% light transmission, but less than 17.8%

Scale number- for oculars with filtering effect only. Higher numbers have a stronger filtering effect (eg are darker for welding). Scale number consists of a code number and a shade number separated by a hyphen, except for welding filters which have no code number. For example, an IR filter with shade number 4 has the scale number 4-4.

## Welding filters - see BS EN 169 and BS EN 379

Shade number between 1.2 and 16. Suffix a denotes filter for use in gas welding with flux.

## UV filters - see BS EN 170

2- or 3- minus code number denoting UV filter without or with good colour recognition respectively, plus shade number between 1.2 and 5.

## IR filters - see BS EN 171

4- minus code number for IR filters, plus shade number between 1.2 and 10.

## Sun-glare - see BS EN 172

5- or 6- minus code number for sun-glare filters without or with IR specification respectively, plus: shade number between **BS EN 1.1 and 4.1 and BS EN 1836.**

## Optical class

1, 2 or 3- indicates optical quality of the ocular. Class 1 is the best.

Standard	Symbol	Explanation
EN 166	1	Optical Class
EN 166	F	Low Energy Impact
EN 166	T	Resistance to high speed particles at extreme temperature
EN 166	B	Medium Energy Impact
EN 166	9	Non adherence of molten metal and resistance to penetration of hot solids
EN 166	3	Protection against liquid droplets/splashes
EN 166	8	Protection against Short Circuit Electric Arc
EN 169	3	Filters for personal eye-protection equipment used in welding and similar operations. Scale Number 3
EN 169	5	Welding and braze welding of heavy materials. Welding with emissive fluxes (notable light alloys) Oxygen Cutting. Scale Number 5
EN 170	2-1, 2	For use with sources which emit predominantly UV Radiation at wave lengths shorter than 313nm and when glare is not an important factor. This covers the UVC and most of the UVB bands. Low pressure mercury lamps such as germicidal lamps.
EN 171	4-5	Protection against Infra Red radiation filters. Typical application in terms of mean temperature sources up to 1350°C.
EN 172	5-3, 1	Sun-glare filters for industrial use - meets requirements for recognition of signal lights.

## EYEWEAR



EP128-0000-045

- EP128-0000-041
- EP128-0000-042
- EP128-0000-043
- EP128-0000-045
- EP128-0000-000



EP110-0000-043

EP110-0000-041

One Size

**BS EN 166**



### Rhino-Tec Ultralite Safety Spectacle

- Lightweight polycarbonate safety spectacle.
- Wraparound design offers superb protection.
- Lightweight spectacle Ensure day long comfort.
- Hard coated anti-scratch lens.



**Conforms to:** BS EN166-1F.

One Size

**BS EN 166**



### Rhino-Tec Ontago Safety Spectacle

- Super lightweight spectacle.
- Hard coated anti-scratch thin lens technology.
- UV400 polycarbonate lenses.
- Stylish contoured dual temple arm with TPR pads.
- Contour design and flexibility of frame gives a good versatile fit onto various face sizes



**Conforms to:** BS EN 166 1.F

EP174-0000-041



EP174-0000-043



EP135-0000-043

- EP135-0000-041
- EP135-0000-043
- EP135-0000-045
- EP135-0000-000

One Size

**BS EN**



### Rhino-Tec Viper Safety Spectacle

- Wrap around safety spectacle.
- Sleek rubber nosepiece.
- Padded end temples providing excellent comfort.
- Polycarbonate lenses providing excellent protection.
- Light weight.



**Conforms to:** BS EN 166-1F.

One Size

**BS EN 166**



### Rhino-Tec Origo Safety Spectacle

- Full feature safety spectacle.
- Hard coated anti-scratch UV400 lens.
- Dual moulded TPR comfort brow shield.
- Contoured temple arms with TPR pads.
- Adjustable nose bridge.
- High impact polypropionate frame.
- Lightweight



**Conforms to:** BS EN 166-1F.

## EYEWEAR



**EP017-0000-000**

One Size

**BS EN 166**

### Visitors Over Spectacle

- Polycarbonate over spectacles.
- Clear one piece wraparound lens.
- Vented side arms to prevent misting of the lens.
- Designed to fit over standard prescription spectacles.

**Conforms to:** BS EN 166- 1F



**EP013-0000-000**

One Size

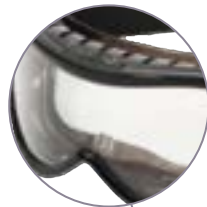
**BS EN 166**



### General Purpose Goggle

- Anti-mist indirect ventilation goggle.
- Body of the goggle protects against large dust particles.
- Body also protects against liquid droplets.
- Lens and body offers protection against molten metal.
- Reflex edge comfort seal.
- Elasticated adjustable strap.

**Conforms to:** BS EN 166.



**EP133-0000-041**

One Size

**BS EN 166**



### Rhino-Tec Vantage Goggle

- Stylish wraparound goggle.
- Indirect ventilation.
- Large reflex comfort seal.
- Extra wide adjustable elasticated headband.
- Hard coated anti mist lens.

**Conforms to:** BS EN 166



## EYEWEAR



One Size

AC168-0000-005

### Rhino Spectacle Bag



- 100% light weight polyester fabric.
- Drawstring pouch.
- Soft material protecting the lens inside.
- Easy open & close design.
- Fits most sunglasses & optical frames.



AC030-0000-005

One Size



### Rhino Belt Moulded Spectacle Case

- Durable hard case.
- Incorporate belt loop clip.
- Zip fastening.
- Lightweight case.
- Protects the spectacle within the case.
- Incorporates a loop, allowing it to be worn on the belt and safety helmet harness.

# AQUA CLASSIC



**EP235-0000-005**

One Size



## Horizon Welding Helmet



- Ideal functionality, performance and comfort.
- Offers exceptional reliability to all types of welders.
- ADF lens offers a high clarity of view, resulting in an excellent optical quality utilising the latest ADF technology.
- Lightweight shell design. High impact resistance Nylon
- 98x48mm 1/1/1/2 – 9-13 ADF.
- True colour ADF technology.
- Externally activated grind mode button.
- Ergonomic multiple adjustable headgear, with rear pivot pad.



**Conforms to:** DIN BS EN379, AS/NZS 1338.1, ANSI Z87.1, CSA Z94.3



**EP043-0000-028**

One Size

**BS EN 166**



## Flip Front Welding Goggle



- 50mm diameter round flip front welding goggle.
- Shade 5 UV-IR filter lenses.
- Clear polycarbonate backing lens.
- Fully adjustable elasticated headband.
- Large reflex comfort seal.
- Indirect ventilation.

**Conforms to:** BS EN 166- 1F & BS EN169



**EP134-0000-000**

One Size

**BS EN 170**

**BS EN 169**

**BS EN 166**



## Rhino-Tec Vanquish Welding Goggle



- Wraparound ski style welding goggle.
- Anti-scratch coated lens.
- Indirect ventilation to prevent misting of the lens.
- Large reflex comfort seal for day long comfort.
- Extra wide adjustable elasticated headband.
- Hard coated Shade 5 welding lens.

**Conforms to:** BS EN 166 1B 349. BS EN169 & BS EN170

# HAND PROTECTION



Introducing our Rhino Tec range, we offer suitable hand protection that caters to a wide variety of workplace environments. Designed with both safety and comfort in mind, these gloves provide excellent grip, dexterity, and durability.

Whether you need protection against cuts, abrasions, chemicals, or extreme temperatures, the Rhino Tec range has a solution tailored to your specific needs. Each glove in this collection is manufactured to the highest standards, ensuring reliable performance in the most demanding conditions. Trust Rhino Tec to keep your hands safe while you focus on getting the job done efficiently and effectively.



## GLOVES

### CE information

The range of hand protection is manufactured to the highest standards, and is tested independently to meet or exceed the appropriate CE standard for which each product is designed.

### Categorisation

Gloves fall into the following three categories:

#### Cat 1 - simple design:

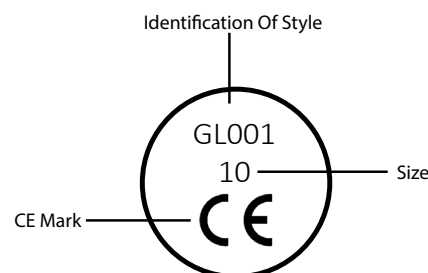
For minimal risks only. Suitable only for low risk applications where hazards can be identified by the wearer in time to deal with them.

#### Cat 2 - intermediate design:

Reversible risks. Products are type examined by an approved body where they examine the manufactures technical specifications and conduct tests for the relevant standards to ascertain their conformity and/or performance.

#### Cat 3 - complex design:

For protection against mortal danger or risks of irreversible harm. Products are type examined by an approved body as for category 2. In addition, the products and manufacturer are subject to EC quality control according to an approved quality system.



### BS EN 388 6.1 Resistance to abrasion

The abrasion test, tests the abrasion resistance of material takBS EN from the palm of a glove. Abrasive paper rubs against the sample with a specified/constant pressure applied until a hole appears, the number of rubs determines the level given, which is shown in the first position under the shield symbol.

### BS EN 388\* – 6.2 Blade Cut Resistance

This test is known as the 'Coupe test' and is based on the number of cycles required to cut through the sample at a constant speed and mass (equivalent to a force of 5 Newtons) when compared to the cut resistance of a standard material e.g. specified cotton canvas. The number of cycles of the rotating blade is used to determine the cut index (second position).

### BS EN 388 – 6.4 Tear Resistance

The test assesses the tear resistance and is based on the amount of force, in Newtons required to tear the sample.

### BS EN 388 – 6.5 Puncture Resistance

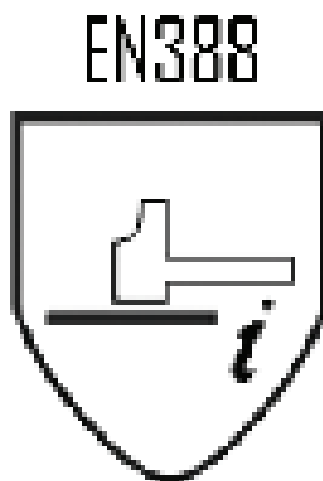
The test assesses the puncture resistance is based on the amount of force, in Newtons required to pierce the sample with a standard sized nail/stylus.

\* A new version of the glove standard BS EN388: Protection against mechanical risks has been published, superseding BS EN388:2003. This only affects new product certification and will not apply retrospectively. Gloves may continue to be sold under both versions of the standard until 2023.

Test	Performance Level				
	1	2	3	4	5
Abrasion Resistance (number of rubs)	100	500	2,000	8,000	
Blade Cut Resistance (index)	1.2	2.5	5	10	20
Tear Resistance (newton's)	10	25	50	75	
Puncture Resistance (newton's)	20	60	100	150	



# GLOVES



	Hand (mm)		Glove
	Palm circumference	Length	Minimum Length
6	152	160	220
7	178	170	230
8	203	182	240
9	229	192	250
10	254	204	260
11	279	215	270



## Thermal hazards BS EN407

A Resistance to flammability	0-4
B Contact heat resistance	0-4
C Convective heat resistance	0-4
D Radiant heat resistance	0-4
E Resistance to small moltBS EN metal splash	0-4
F Resistance to large moltBS EN metal splash	0-4



## Chemical & micro-organisms BS EN374

EN374-2 Resistance to penetration by micro-organisms	
Referred to as acceptable quality level (AQL)	1-3
EN374-3 resistance to chemical hazards – permeation	1-6



## Protection from cold BS EN511

A Resistant to convective cold	0-4
B Resistant to contact cold	0-4
C Permeability of water	0-1



## GLOVES



**GL001-0000-026**

Sizes available: 7- 11



### Latex Palm Coated Glove



- Orange latex palm coated gripper glove.



- Cotton Lined.



- Textured finish for grip in both wet and dry conditions allows safe and secure handling.



- Knit wrist.

- Seamless knitted 10 gauge cotton/polyester liner.

- Flexible latex coated fingertips and thumb crotch.



**3 1 4 2 X**

**Conforms to:** BS EN420 BS EN388 (3 1.4.2 X) Cat 2



**GL005-0000-045**

Sizes available: 9- 10



### Rhino-Tec Gripper Glove



- Fully dip coated gripper glove.



- Knit wrist.



- 100% cotton liner.

- Natural rubber latex coating.

- Crinkle finish for superior grip.



**Conforms to:** BS EN388 (4 1 4 1) Cat 2



**4 1 4 1**



**GL026-0000-000**

Sizes available: 7- 11



### Cut master T5 PU Palm Coated Glove



- PU Palm coated cut level 5 high performance glove.



- Polyurethane palm and finger tip coating.



- Superior grip in dry or wet conditions.

- Superior abrasion and tear resistance.

- Excellent grease and oil resistance.

- Seamless knitted construction.

- Elasticated knit wrist.



**4 4 4 3 D**

**Conforms to:** BS EN420. BS EN388 (4443D) Cat2

## GLOVES



GL004-0000-005

Sizes available: 8- 11



### Rhino-Tec PU Palm Coated Glove



- Nylon glove with polyurethane coating.
- 13 gauge seamless nylon liner for extra comfort.
- Open style allows breathability.
- Reduces risk of contamination.
- Superior dexterity and sensitivity.
- Elasticated knit wrist.
- Ideal for electronic and computer assembly and small parts handling.



4 1 4 1 X

**Conforms to:** BS EN420. BS EN388 (4 1 4 1 X) Cat 2

Sizes available: 8- 11



### Rhino-Tec Nitrile Foam Glove

- Black Nitrile Foam Coating.
- 13 Gauge Seamless Grey Nylon Liner.
- Excellent Abrasion Resistance.
- Superior Grip Even in Oily Conditions.
- Excellent Feel & Dexterity.

**Conforms to:** BS EN388 (????) CAT 2



4 1 2 1



GL150-0000-216

Sizes available: 8- 11



### Rhino-Tec Latex Palm Coated Glove

- Cut level 5 high performance glove.
- Latex palm and finger tip coating.
- Uncoated back for comfort and breathability.
- Knit wrist.
- Seamless lined.
- Excellent abrasion tear and puncture resistance.
- Excellent wet and dry grip properties.

**Conforms to:** BS EN 388 (4 4 4 4E) Cat 2



4 4 4 4 E



GL088-0000-000

# GLOVES



**GL024-0000-045**

Sizes available: 8- 11



## Rhino-Tec Nitrile Knit Wrist Glove

- Fully coated nitrile glove.
- Seamless knitted cotton support liner.
- Knit wrist.
- Excellent wet and dry grip.
- Excellent grease and oil resistance.
- Excellent abrasion and tear resistance.

**Conforms to:** EN420:2003 + A1:2009 , EN388:2016(4 1 2 2 X) Cat II



**4 1 2 2 X**



**GL023-0000-045**

Sizes available: 8- 11



## Rhino-Tec Nitrile Safety Cuff Glove

- Seamless cotton support liner.
- Safety cuff.
- Excellent wet and dry grip.
- Excellent grease and oil resistance.
- Excellent abrasion and tear resistance.

**Conforms to:** EN420:2003 + A1:2009 , EN388:2016(4 1 2 2 X) Cat II



**4 1 2 2 X**



**GL152-0000-034**

Sizes available: 8- 11



## Rhino-Tec Yellow Nitrile Knit Wrist Glove

- Yellow nitrile coating.
- Three-quarter dipped.
- Interlocked liner with knit wrist.
- Textured surface for improved grip.
- Open back for comfort.
- Excellent feel and dexterity.
- Light weight.

**Conforms to:** EN420:2003 + A1:2009 , EN388:2016 (3 1 1 1 X) Cat II



**3 1 1 1 X**



**GL006-0000-000**

Sizes available: 7- 10



## Rhino-Tec PVC Dip Knit Wrist Glove

- Medium weight fully coated PVC.
- Interlocked cotton liner.
- Knit Wrist.
- Smooth finish.
- Excellent abrasion resistance.
- Suitable for chemical processing, refining & public utilities.
- Resistant to oil and most chemicals.

**Conforms to:** EN420:2003 + A1:2009 , EN388:2016 (4 1 2 1 X) Cat II



**4 1 2 1 X**



## GLOVES



GL037-0000-137

Sizes available: 6- 11



### Rhino-Tec Nitro-Flex Glove

- Flexiblenitrilecoating
- Enhancedabrasion resistance
- 13 gauge liner
- Seamless open style for comfort
- Elasticated knit wrist

**Conforms to:** EN388:2016+ A1:2018 (3 1 2 1 X)  
Cat II

EN 388:2016 + A1:2018



GL207-0000-294

Sizes available: 6- 11



### Rhino-Tec Conforto Nitrile Foam Dotted Glove

- Premium quality glove.
- Seamless for comfortability.
- Nitrile micro foam.
- Breathable Glove.
- Raised micro grip dots to increase durability.
- Light weight and flexible.
- Nitrile coating.
- Stretch Nylon.

**Conforms to:** EN420:2003 + A1:2009 , EN388:2016 (4 1 3 1) Cat II

EN388



GL151-0000-297

Size available: 10



### Rhino-Tec PVC Polka Dot Gloves

- 13 gauge seamless knitted.
- White nylon liner.
- Palm and fingers with blue PVC dots.
- Excellent grip.
- Knit wrist.

**Conforms to:** BS EN 388 (3 1 4 X)

EN388



# GLOVES



GL132-0000-274

Sizes available: 10- 11



## Rhino-Tec Heavy Duty Rigger Glove

- High quality split leather Canadian rigger glove.
- 6cm rubberised cuff.
- Full finger tip protection with wrap around first finger.
- Knuckle protector & vein patch.

**Conforms to:** EN420:2003 + A1:2009 , EN388:2016 (4 1 4 4 X) Cat II



4 1 4 4 X



GL043-0000-217

One Size



## Rhino-Tec Premium Rigger Glove

- Ultra high quality cow split leather Canadian rigger glove.
- 50mm rubberised cuff.
- Wing thumb with wraparound first finger.
- Fully welted.
- Reinforced palm with 20mm vein patch.
- 10 oz drill back with leather knuckle protector and leather finger tips.
- Fully jersey lined.

**Conforms to:** BS EN388 (4 2 4 3) Cat 2.



4 2 4 3



GL029-0000-000

One Size



## Rhino-Tec Drivers Style Leather Glove

- Cow grain leather.
- Red full fleece lining to glove.
- Gunn cut to ensure good flexibility.
- No seams to cause irritation or discomfort.
- Keystone thumb construction.
- Red binding around cuff edge.

**Conforms to:** EN420:2003 + A1:2009 , EN388:2016 (2 1 3 2 X) Cat II



2 1 3 2 X

## GLOVES

Sizes available: S- XL



### Aqua Cabling Glove

- Super grip cabling glove.
- Seamless construction for comfort.
- Open back for breathability.
- Close fitting for maximum dexterity.
- Elasticated wrist with velcro tab.
- Lint free and can be safely laundered.

Conforms to: EN420:2003 + A1:2009 ,  
EN388:2003 (2 2 4 1) Cat II



GL063-0000-000



GL051-0000-045

Sizes available: S- XL

**BS EN 455**

### Powder-Free Nitrile Glove

- 100% Latex free blue nitrile gloves.
- Textured fingers for an improved grip.
- Beaded cuff.
- Excellent wet and dry grip.
- Good chemical resistance.
- 100pcs in a dispenser box.

Conforms to: BS EN455 (medical)

# GLOVES



Sizes available: L & XL

**GL120-0000-217**



## Rhino-Tec® Ellipse Curved Mig Welders Gauntlet

- Ergonomically designed to fit the natural curve of the hand.
- High quality split leather.
- Fully welted fingers & seams.
- Reinforced thumb crotch.
- Wing thumb construction.
- Fleece style lining.
- Fully Kevlar stitched.



**Conforms to:** BS EN420. BS EN388 Cat 2 & BS EN12477



One Size

**GL116-0000-036**



## Rhino-Tec® High Quality Mig Welders Gauntlet

- Split leather cuff and back.
- Natural goatskin hide palm.
- Natural drill lined cuff with full jersey lining.
- Kevlar stitched.
- Wing thumb construction.
- Vein patch.
- Wraparound hide first finger.
- Fully welted gauntlet.



**Conforms to:** EN420:2003 + A1:2009, EN388:2016 (2 2 2 X), & EN 12477:2001 + A1:2005 (4 1 3 X 4 X) Type A, Cat II



One Size

**GL122-0000-036**



## Rhino-Tec® Heavy Duty Tan Welders Gauntlet

- High quality split leather.
- Wing thumb construction with reinforced overlay.
- Fully welted fingers & seams.
- Kevlar stitched.
- Full jersey lining to palm.
- FR cotton lining to cuff.



**Conforms to:** EN420:2003 + A1:2009, EN388:2016 (3 1 3 4 X), & EN 12477:2001 + A1:2005 (4 1 3 X 4 X) Type A, Cat II



One Size

**GL016-0000-028**



## Rhino-Tec® Superior Heavy Duty Red Welders Gauntlet

- Red cowhide split leather.
- Gunn cut pattern.
- Wing thumb construction.
- Fully welted fingers in black leather.
- Wraparound first finger.
- Kevlar stitched.
- Fleece liner palm.
- Cotton lining to cuff.



**Conforms to:** EN420:2003 + A1:2009, EN388:2016 (4 2 4 4 X), & EN 12477:2001 + A1:2005 (4 1 3 X 4 X) Type A, Cat II



## GLOVES



**GL127-0000-219**

One Size

### Aluminised Hand Shield

- To be used with a welding gauntlet to give extra protection.
- Reflects radiant heat.

NOTE this item is priced in singles.



**GL124-0000-283**

One Size



### Rhino-Tec® Aluminised Heavy Duty Welding Gauntlet



- Aluminised woven Kevlar back.
- Protection against extreme heat.
- Heavy duty split leather supported palm.
- Wing thumb with part welted seams construction.
- Kevlar stitched.
- Fully lined with brushed cotton.
- WoolBS EN felt lining to palm only.
- 250 deg C contact heat.
- 1000 deg C radiant heat.



**Conforms to:** BS EN420. BS EN388 Cat 2 & BS EN12477



**GL130-0000-284**

One Size



### Rhino-Tec® Tig Ultra Soft Welding Gauntlet



- High quality super soft sheep skin hand.
- Split leather 15cm length cuff.
- Fully Kevlar stitched.
- Wing thumb construction.
- Vein patch.
- Unlined glove.
- Excellent dexterity.



**Conforms to:** EN420:2003 + A1:2009, EN388:2016 (2 1 1 2 X), & EN 12477:2001 + A1:2005 (4 1 X X 4 X) Type B, Cat II



**GL060-0000-217**

Sizes available: 10



### Rhino-Tec® Ultra High Quality Mig Welding Gauntlet

- Split leather gauntlet.
- Kevlar stitched.
- Fully welted with re-enforced palm.
- Thumb crotch and wing thumb construction.
- Wraparound index finger.
- Heavy duty jersey liner to palm and back.



**Conforms to:** BS EN 388 & BS EN12477

## GLOVES



### GL121-0000-005

Sizes available: 9 & 10



#### Rhino-Tec® Heavy Duty Welding Gauntlet

- Cow split leather gauntlet.
- Chrome leather cuff.
- Gunn cut pattern.
- Angled wing thumb construction.
- Comfortable with excellent dexterity.
- Fleece lined hand and cotton drill lined cuff.
- Fully welted.



**Conforms to:** EN420:2003 + A1:2009, EN388:2016 (4 2 4 4 X), & EN 12477:2001 + A1:2005 (4 1 3 X 4 X) Type A, Cat II



### GL084-0000-033

Sizes available: 10



#### Rhino-Tec® Classic Tig Welders Gauntlet

- Lightweight traditional Tig gauntlet.
- Natural goat grain leather hand.
- Natural split leather cuff.
- Soft and supple leather palm and back.
- Wing thumb construction.
- Unlined for greater dexterity.
- Kevlar stitched.



**Conforms to:** EN420:2003 + A1:2009, EN388:2016 (2 1 2 1 X), & EN 12477:2001 + A1:2005 (4 1 X X 4 X) Type B, Cat II



### GL132-0000-274

Sizes available: 10-11



#### Rhino-Tec Heavy Duty Rigger Glove

- High quality split leather Canadian rigger glove.
- 6cm rubberised cuff.
- Full finger tip protection with wraparound first finger.
- Knuckle protector & vein patch.



**Conforms to:** EN420:2003 + A1:2009, EN388:2016 (4 1 4 4 X) Cat II



### GL043-0000-217

One Size



#### Rhino-Tec Premium Rigger Glove

- Ultra high quality cow split leather Canadian rigger glove.
- 50mm rubberised cuff.
- Wing thumb with wraparound first finger.
- Fully welted & jersey lined.
- Reinforced palm with 20mm vein patch.
- 10 oz drill back with leather knuckle protector and leather finger tips.



**Conforms to:** EN420:2003 + A1: 2009, EN388:2003(4 2 4 3) Cat II



# SAFETY FOOTWEAR



Introducing our Titan and VA range of safety footwear which includes a selection of boots, shoes, and trainers, all designed to provide exceptional protection and comfort. Each product in this range conforms to the latest EN ISO 20345 standard, ensuring they meet the highest safety requirements.

Engineered for demanding environments, our safety footwear features steel toe caps, slip-resistant soles, and anti-static properties. Whether you're on a construction site, in a warehouse, or facing other hazardous conditions, our Titan and VA range offers the durability and reliability you need to stay safe on the job. Explore our collection to find the perfect footwear that combines advanced safety features with ergonomic design for maximum comfort and protection.

# STANDARDS EXPLAINED

Specification for safety footwear for professional use: Footwear with characteristics suitable for protecting the wearer against injuries that may occur in the professional sectors for which the footwear has been designed, with toe caps for providing protection against impact, when tested at an energy level of 200 J.

## Safety Ratings Explained

Class	Features & Benefits
S8	Safety basic, 200 joules Toe Protection, Oil Resistant outer sole. (Minimum Requirement)
S8P	As S8 plus Mid-Sole for penetration resistance.
S1	As S8 plus Anti-Static properties and fully enclosed Energy Absorbing heel area.
S1P	As S1 plus Mid-Sole for penetration resistance.
S2	As S1 plus resistance to Water Penetration and absorption.
S3	As S2 plus Mid-Sole for penetration resistance and cleated outsole.
S4	200 joules Toe Protection. All rubber or polymer construction (waterproof). Anti-Static properties, Energy Absorbing heel area.
S5	As S4 plus Mid-Sole for penetration resistance and cleated outsole.

EN ISO 20345:2011

### Minimum categories of safety footwear:

Category	Basic Requirements	Additional Requirements
S8	I or II	
S1	I	Closed heel region Antistatic properties Energy absorption of heel region Resistance to fuel oil
S2	I	As S1, plus: Water penetration and absorption
S3	I	As S2, plus: Penetration resistance Cleated outsole
S4	II	Closed heel region Antistatic properties Energy absorption of heel region Resistance to fuel oil
S5	II	As S4, plus: Penetration resistance Cleated outsole



# STANDARDS EXPLAINED

## DESCRIPTIONS

### Toe protection (SB)

Your toes are a very vulnerable part of your body, especially in a workplace. Toe protection must withstand a 200 joule impact. Joule is the unit of energy and this standard is purposefully specific. Something heavy falling from a low height could have a lot less energy than something lighter from a much higher height. As well as impacts, the toe area must withstand a resting mass of well over 1000kg. Most people have heard of steel toe cap boots but the protection doesn't have to be steel. In fact there are advantages to alternatives. Non-metallic protection can be equally as strong but lighter.

### Anti-static protection (A)

Clothing, seating materials, and climate factors can cause a build up a static charge of electricity in the body. Some materials in footwear can over insulate the body causing the charge to be held. When you then touch something the charge can rush from your body quickly causing a spark and a small uncomfortable shock. Anti-static footwear will significantly reduce this effect but does not offer full protection for exposure to electronics and explosives work. You will need Electro-Static Protection (ESD) for this.

### Mid-sole penetration protection (P) – SB-P, S1-P, S3, S5

Sharp objects where we walk and stand are a significant risk not only in the workplace but also outdoors and at home. Mid-sole protection will guard against nails and other objects. To meet this standard the footwear must be able to resist a penetration force of 1100N. Mid-sole protection is provided in one of these methods: a stainless steel insert in the sole, aluminum insert in the sole, or by Kevlar insole. The Aluminum and Kevlar solutions are the most flexible and lightest and cover the greatest area of the foot. Kevlar insoles also offer much higher thermal insulation.

### Energy Absorption (E)

Energy Absorption in the heel region

### Water Resistant Upper (WRU)

Water resistant upper; not used on all rubber or polymeric footwear

### Heat Resistant (HRO)

Heat resistant out-sole: to resist 300°C for 60 seconds

### Insulation against Cold (CI)

Insulation against cold: tested for 30 minutes at 1-20°C

### Insulation against heat (HI)

Insulation against heat: tested for 30 minutes at 150°C

### Electro-Static Discharge (ESD)

ESD footwear is designed for the electronics and explosives industry and has to meet ESD CEI BS EN 61340-5-1 standard.

### Non-metallic footwear

Safety footwear containing no metal parts is ideal for workplaces with metal detectors like airports or security points without the need to remove footwear to pass through.

All safety footwear can have more features than are listed above but these are the minimum requirements to meet each of the safety ratings and the most common.

Options for specific protection are categorised as:

A – Anti-static: Comes as standard with level S1, S2 & S3

E – Energy absorbing heel: Comes as standard with level S1, S2 & S3

P – Puncture Resistant: Comes as standard with level SB-P, S1-P & S3

HRO – Heat Resistant Out-sole: Comes as standard with level SB, S1, S2 & S3

# STANDARDS EXPLAINED

## Requirements for footwear resistant to slip:

Marking of product for slip resistance properties	Symbol
Demonic tile with sodium lauryl sulphate	SRA
Steel with glycerol	SRII
Demonic tile with sodium lauryl sulphate & steel with glycerol	SRI

## Additional requirements for special applications with appropriate symbols for marking:

Requirement		Symbol
Whole Footwear	Penetration resistance	P
	Electrical properties:	
	▪ Conductive footwear	C
	▪ Antistatic footwear	A
	▪ Electrically insulating footwear	As per double triangle in standard EN 50321
	Resistance to inimical environments:	
	▪ Heat insulation of sole complex	HI
	▪ Cold insulation of sole complex	CI
	Energy absorption of seat region	E
	Water resistance	WR
Upper	Metatarsal protection	M
	Ankle protection	AN
	Cut resistance	CR
	Water penetration and absorption	WRU
Outsole	Resistance to hot contact	HRO
	Resistance to fuel oil	FO



ANTI  
STATIC



RESISTANCE  
TO PERF



IMPACT  
RESISTANCE



WATER  
REPELLENT



SLIP  
RESISTANCE



OIL  
RESISTANCE



ENERGY  
ABSORPTION



DUAL  
DENSITY SOLE

## FOOTWEAR



FW820-0000-005

Sizes available: 5- 13



### S3 Titan Waterproof Composite Boot

- Premium waxy leather upper.
- Totally non metallic safety boot.
- Waterproof safety boot.
- PU/rubber outsole.
- Heat resistant 300°C

**Conforms to:** BS EN ISO 20345:2011 S3 WR HRO SRC

Sizes available: 5- 12



### S3 Titan Weltd Boot

- Premium leather upper.
- Padded collar.
- Steel toe cap and midsole.
- Scuff cap.
- Weltd outsole.
- Degree outsole.

**Conforms to:** BS EN ISO 20345:2011 S3 HRO SRA



FW836-0000-005



FW131-0000-005

Sizes available: 5- 13



### S3 Titan Welding Boot

- Specially treated leather upper.
- Quick release safety boot.
- Safety toe cap with scuff resistant coating.
- Composite midsole for comfort.
- PU/rubber outsole.
- Oil resistant outsole.
- Heat resistant 300 degree C.

**Conforms to:** BS EN ISO 20349:2010 WG, BS EN ISO 20345:2011 S3 HRO SRC

# AQUA CLASSIC



**FW021-0000-005**

Sizes available: 3- 13



## S3 Chukka Boot

- Water penetration resistant upper.
- Steel toe cap.
- Steel midsole.
- Outsole heat resistance to 200°C.
- Oil resistant outsole.
- Electrical resistance.
- Heel BS ENergy absorption.

**Conforms to:** BS EN ISO 20345:2011 S3 SRC



**FW029-0000-005**

Sizes available: 3- 14



## S3 Safety Tie Shoe

- Full grain leather upper.
- Steel toe cap & midsole.
- PU dual density outsole.
- Oil resistant outsole.

**Conforms to:** BS EN ISO 20345:2011 S3 SRC



**FW070-0000-005**

Sizes available: 6- 13



## S3 Hiker Style Boot

- Full grain leather upper.
- Padded collar.
- Moisture-wicking lining.
- Steel toe cap & midsole.
- Removable washable footbed.
- PU dual density outsole.
- Oil resistant outsole.

**Conforms to:** BS EN ISO 20345:2011 S3 SRC



**FW110-0000-005**

Sizes available: 6- 12



## S1P Safety Brogue Shoe

- Premium leather upper.
- Steel toe cap & midsole.
- Polyurethane outsole.
- Oil resistant outsole.
- Removable foot bed.

**Conforms to:** BS EN ISO 20345:2011 S1P SRC



## AQUA CLASSIC



**FW034-0000-005**

Sizes available: 3- 14



### S3 High Ankle Safety Boot

- Full grain leather upper.
- Padded collar.
- Moisture wicking lining.
- Steel toe cap & midsole.
- Removable washable foot bed.
- PU dual density outsole.
- Oil resistant outsole.

**Conforms to:** BS EN ISO 20345:2011 S3 SRC



**FW367-0000-201**

Sizes available: 3- 14



### S1P Safety Trainer

- Full grain leather.
- Suede & Mesh features.
- Steel toe cap & midsole.
- PU dual density outsole.

Colours Available: Black

**Conforms to:** BS EN ISO 20345:2011 S1P



**FW020-0000-005**

Sizes available: 3- 13



### S5 Safety Wellington Boot

- Complete with steel midsole and toe-cap.
- Upper with PVC/Nitrile sole.
- Ribbed heel with kick off tab.
- Oil acid alkali and fat resistant.
- 1100N Penetration resistance steel midsole.
- Cleated outsole.

**Conforms to:** BS EN ISO 20345:2011 S5 SRC



# SECURITY

Introducing our range of Security and Tactical Garments, specifically designed for those who demand the highest levels of protection and functionality. Each piece in this collection is crafted with advanced materials and innovative features to ensure durability, comfort, and maximum performance in high-pressure environments.

Whether you are in law enforcement, military, or private security, our garments provide the reliability and tactical advantage you need to operate effectively and safely. Explore our selection of tactical vests, body armor, specialized footwear, and rugged apparel, all engineered to meet the rigorous demands of your profession.

## TACTICAL VESTS



Sizes available: XS- XL



### Black Advanced Tactical Duty Vest

- Hidden elasticated torch/glove holders in the shoulders
- Elasticated belt loops to aid retention and comfort whilst running or changing from standing to sitting
- Epaulette bars & buttons to attach all styles of epaulettes and sliders
- Manufactured utilising tough 1000d polyester & tactical mesh
- Innovative rear stash pocket, perfect for gloves or contact cap
- CS spray pouch, suitable to hold a Peter Jones unit
- Baton cross-drawn down for quick deployment
- Combi handcuff pouch suitable for speedcuffs & hinged cuffs
- Small pouch suitable for medical kits or limb restraints
- Hidden elasticated pen/spare cuff key holders behind medical pouch
- D-rings for additional attachments – lanyards, carabiners or ID tags
- Large water resistant zipped pockets behind equipment panels
- Small velcro patch on the front and a large velcro patch on the rear



Sizes available: S- 6XL



### Hi Vis Yellow Advanced Tactical Duty Vest



- Hidden elasticated torch/glove holders in the shoulders
- Reflective tape around waist, chest and across shoulder
- Elasticated belt loops to aid retention and comfort
- Epaulette bars and buttons to attach all styles of epaulettes & sliders
- Manufactured utilising tough 1000d polyester & tactical mesh
- CS spray pouch, suitable for Peter Jones units
- Baton cross-drawn down for quick deployment
- Combi handcuff pouch suitable for speedcuffs & hinged cuffs
- Small pouch suitable for medical kits or limb restraints
- Hidden elasticated pen/spare cuff key holders behind medical pouch
- D-rings for additional attachments – lanyards, carabiners or ID tags
- Large water resistant zipped pockets behind equipment panels
- Small velcro patch on the front & a large velcro patch on the rear
- NOT suitable for side handle batons





# TACTICAL VESTS



Sizes available: XS- XL



## Black Advanced Security Vest

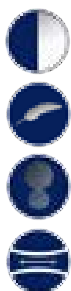
- Hidden elasticated torch/glove holders in the shoulders
- Reflective tape around waist, chest & across shoulder
- Elasticated belt loops to aid retention & comfort
- Epaulette bars & buttons to attach all styles of epaulettes & sliders
- Manufactured utilising tough 1000d polyester and tactical mesh
- Torch Pouch suitable for carrying hand held tactical torches
- Large horizontal Kit Pouch
- Combi handcuff pouch suitable for speedcuffs & hinged cuffs
- 2 x Small pouch suitable for medical kits, limb restraints & medical gloves
- D-rings for additional attachments – lanyards, carabiners or ID tags
- Large water resistant zipped pockets behind equipment panels
- Small velcro patch on the front & a large velcro patch on the rear



Sizes available: XS- XL



## Hi Vis Yellow Advanced Security Vest



- Hidden elasticated torch/glove holders in the shoulders
- Reflective tape around waist, chest & across shoulder
- Elasticated belt loops to aid retention & comfort
- Epaulette bars & buttons to attach all styles of epaulettes & sliders
- Manufactured utilising tough 1000d polyester and tactical mesh
- Torch Pouch suitable for carrying hand held tactical torches
- Large horizontal Kit Pouch
- Combi handcuff pouch suitable for speedcuffs and hinged cuffs
- 2 x Small pouch
- D-rings for additional attachments – lanyards, carabiners or ID tags
- Large water resistant zipped pockets behind equipment panels
- Small velcro patch on the front & a large velcro patch on the rear.





## TACTICAL VESTS

Sizes available: S- 4XL



### Ultra-Covert Concealable Ballistic Body Armour - Home Office KR1 Stab SP1 Needle Protection

#### Features

- Low profile and flexible fabrics
- Low profile flame resistant Velcro
- Lightweight polycotton
- Coolmax mesh ventilation layer for excellent sweat management
- Flame Resistant (BS 6941:2003)
- Remove panels & swap covers
- Dynamic adjustable shoulders and waist for the most

#### Protection & Coverage:

- Home Office 2017 KR1 SP1 (stab and spike)
- KR1- protection against blades, knives & other edged weapon attacks
- SP1- high level protection against needle & spike attacks
- Coverage area front, back, sides with optional components available
- Internal soft steel armour panels are compatible with VestGuard covers



Sizes available: S- 4XL



### Hi Vis Yellow Advanced Tactical Duty Vest

#### Features:

- Low profile & flexible fabrics
- Low profile flame resistant Velcro
- Lightweight polycotton
- Coolmax mesh ventilation layer for excellent sweat management
- Flame Resistant (BS 6941:2003)
- Dynamic adjustable shoulders & waist for the most comfort & perfect fit

#### Protection & Coverage:

- NIJ level II (2) 9mm and .357 Magnum Handguns
- Edge to edge performance
- Coverage area front, back, sides with optional components available
- Internal armour panels are compatible with other VestGuard covers, remove panels and swap covers

# TACTICAL VESTS



Sizes available: S- 4XL



## Ultra-Covert Concealable Ballistic Body Armour – NIJ Level IIIA

### Features:

- Low profile & flexible fabrics
- Low profile flame resistant Velcro
- Lightweight polycotton
- Coolmax mesh ventilation layer for excellent sweat management
- Flame Resistant (BS 6941:2003)
- Dynamic adjustable shoulders & waist for the most comfort and perfect fit

### Protection & Coverage:

- NIJ level IIIA (3A) 9mm, .357 Magnum, .44 Magnum
- Edge to edge performance
- Coverage area front, back, sides with optional components available
- Internal armour panels are compatible with other Vest-Guard covers, remove panels and swap covers



Sizes available: S- 4XL



## Ultra-Covert Concealable Ballistic Body Armour -Home Office HO1 KR1 SP1

### Features:

- Low profile & flexible fabrics
- Low profile flame resistant Velcro
- Lightweight polycotton
- Coolmax mesh ventilation layer for excellent sweat management
- Flame Resistant (BS 6941:2003)
- Dynamic adjustable shoulders and waist for the most comfort and perfect fit

### Protection & Coverage:

- Home Office 2017 HO1KR1 SP1 (9mm handgun, stab and spike)
- KR1- high level protection against blades, knives and other edged weapons
- SP1- high level protection against needle and spike attacks
- Edge to edge performance
- Coverage area front, back, sides with optional components



## TACTICAL VESTS



Sizes available: S- 4XL



### Community Support Body Armour CS103 – Home Office KR1 SP1

#### Features:

- Outer cover zips up at the front with YKK zip
- 2 large bellow and 2 zip up chest pockets with storage
- Shoulder radio loops. Upgrade option to include click fast docking stations for radios, cameras and other accessory attaching
- Front and rear velcro for adding standard or bespoke badges
- Internal pockets for hard armour rifle plate
- Hard wearing codura finish with reinforced edges
- 3D spacer mesh ventilation layer for excellent sweat management

#### Protection & Coverage :

- Home Office 2017 KR1 SP1 (stab and spike)
- KR1- high level protection against blades, knives and other edged weapons
- SP1- high level protection against needle and spike attacks
- Made from soft steel technology wraps around the body
- Front, rear and side protection against knives, and needles to UK
- HomeOffice standards
- Internal armour panels are compatible with other Vest-



Sizes available: S- 4XL



### Community Support Body Armour CS103 – NIJ Level II

#### Features:

- Outer cover zips up at the front with YKK zip
- 2 large bellow and 2 zip up chest pockets with storage for pens, notebooks and other accessories
- Shoulder radio loops. Upgrade option to include click fast docking stations for radios, cameras and other accessory attaching
- Front and rear velcro for adding standard or bespoke badges
- Internal pockets for hard armour rifle plate upgrades for highthreat police, prison officer and military purposes
- Hard wearing codura finish with reinforced edges
- 3D spacer mesh ventilation layer for excellent sweat management
- Flame Resistant (BS 6941:2003)

#### Protection & Coverage :

- NIJ level II- Protection against 9mm, 0.357 Magnum and shotguns
- Stab- In house tested protection against most common knife attacks
- Front, rear and side protection
- Internal armour panels are compatible with other Vest-Guard covers
- Remove panels and swap covers
- Water and oil proof sonic welded outer PU protective bag

# TACTICAL VESTS



Sizes available: S - 4XL



## Community Support Body Armour CS103 – NIJ Level IIIA

### Features:

- Outer cover zips up at the front with YKK zip
- 2 large bellow and 2 zip up chest pockets with storage for pens, notebooks and other accessories
- Shoulder radio loops.
- Upgrade option to include click fast docking stations for radios, cameras and other accessory attaching
- Front and rear velcro for adding standard or bespoke badges
- Internal pockets for hard armour rifle plate upgrades for high threat police, prison officer and military purposes
- Hard wearing codura finish with reinforced edges
- 3D spacer mesh ventilation layer for excellent sweat management
- Flame Resistant (BS 6941:2003)

### Protection & Coverage:

- NIJ level IIIA (3a)- Protection against high velocity 9mm, 0.357 SIG, 0.44 Manum & shotguns
- Stab- In house tested protection against most common knife attacks
- Front, rear and side protection
- Internal armour panels are compatible with other Vest-Guard covers
- Remove panels and swap covers
- Water and oil proof sonic welded outer PU protective bag



Sizes available: S - 4XL



## Community Support Body Armour CS103 – Home Office HO1 KR1 SP1

### Features:

- Outer cover zips up at the front with YKK zip
- 2 large bellow and 2 zip up chest pockets with storage for pens, notebooks and other accessories
- Shoulder radio loops. Upgrade option to include click fast docking stations for radios, cameras and other accessory attaching
- Front and rear velcro for adding standard or bespoke badges
- Internal pockets for hard armour rifle plate upgrades for high threat police, prison officer and military purposes
- Hard wearing codura finish with reinforced edges
- 3D spacer mesh ventilation layer for excellent sweat management
- Flame Resistant (BS 6941:2003)

### Protection & Coverage:

- Home Office 2017 HO1 KR1 SP1 (9mm Handgun, stab and spike)
- KR1- high level protection against blades, knives and other edged weapon attacks
- SP1- high level protection against needle and spike attacks
- Made from flexible technology wraps around the body
- Front, rear and side protection against knives, and needles to UK Home Office standards
- Internal armour panels are compatible with other Vest-Guard covers
- Remove panels and swap covers
- It is recommended to use NIJ level IIIA (3A) solutions as part of an ICW rifle system behind any
- VestGuard Hard Armour plates
- Water and oil proof sonic welded outer PU protective bag



## JACKETS



Sizes available: S- 4XL



### Result Work-Guard Ripstop Soft Shell Jacket

#### Features:

- 93% polyester/7% elastane outer
- Waterproof 8000mm, breathable 1000g and wind proof TPU membrane
- Micro fleece inner layer
- Collar high full length zip with inner zip guard
- Durable Cordura® panels on shoulders and elbows
- Reflective piping to front and back shoulders
- Right chest zip pocket
- Left sleeve zip pocket
- Two front zip pockets
- Open cuffs
- Adjustable drawcord hem
- Cut out label
- Suitable for print and embroidery



Sizes available: S- 4XL



### FJ915-0000-005 Aqua Premium Soft Shell

#### Features:

- Stylish breathable, windproof and water resistant
- Performance membrane
- Stand up collar with a under placket
- Front zip fastening
- Right chest zipped map pocket for convenient storage
- Micro fleece inner providing warmth
- Mesh lined front panels
- Adjustable cuffs with touch & close fastening
- Two lower front zip pockets
- Curved hem with draw cord



# JACKETS



Sizes available: S - 4XL



## JK171-0000-005 Trackman Executive Waterproof Jacket



### Features:

- Pongee PVC outer fabric
- 210 gsm
- Padded jacket providing warmth to the wearer
- Fold away hood concealed into the collar
- Stand up collar with a fleece lined inner
- Front stormflap with touch & close fastening
- Concealed front zip fastening
- Two front jetted pockets with touch & close fastening.
- Inner pockets for storage
- Inner elasticated storm cuff
- Draw cord hem for adjustment



Sizes available: S- 3XL



## Regatta Beauford Waterproof Insulated Jacket



### Features:

- Polyester lining
- Thermo-Guard® insulation
- Waterproof with taped seams
- Windproof
- Unlined, concealed adjustable hood
- Collar high full length zip with tear release storm flap
- Two front zip pockets with storm flaps
- Inner chest pocket
- Part elasticated adjustable cuffs
- Adjustable drawcord hem
- Cut out label
- Zip access for decoration



## JACKETS



Sizes available: S- 3XL



### Regatta Classic Waterproof 3 in 1 Jacket



#### Features:

- Polyester taffeta lining
- Waterproof with critically taped seams
- Windproof
- Concealed adjustable hood
- Full length zip with chin guard and inner zip guard
- Two front zip pockets
- Tear release adjustable cuffs
- Zip out 210 series anti-pill Symmetry® fleece inner
- Fleece has two side pockets
- Cut out label
- Access for decoration

## JUMPERS & FLEECES



Sizes available: XS- 5XL



### JP003-0000-005 Aqua Cotton Acrylic V-Neck Jumper



#### Features:

- 100% acrylic fibre
- V-neck with a ribbed neckline
- Raglan long sleeves
- Ribbed hem & cuffs for comfort



Sizes available: XS- 7XL.



### SS004-0000-005 Aqua Long Sleeve Sweatshirt

#### Features:

- Aqua Long Sleeve Sweatshirt
- Crew neck with double stitched neckline
- Ribbed cuffs and hem providing comfort to the wearer
- Double stitched sleeve and waist





## JUMPERS & FLEECES



Sizes available: XS- 6XL



### SS062-0000-005 Aqua 1/4 Zip Sweatshirt

**Features:**

- 320gsm Premium polyester / cotton brushed fabric
- Ribbed collar with self fabric panels at front for comfort
- Knitted rib cuffs , neck and waistband
- Concealed front zip
- Twin needle coverseam stitching for smart appearance
- Inset sleeves



Sizes available: 2XS- 6XL



### FJ001-0000-005 Aqua Deluxe Fleece

**Features:**

- Aqua Heavy Weight Fleece Jacket
- Heavyweight microfleece
- Front self colour zip
- Internal storm cuffs
- High collar for protection against all weather conditions
- Two external slightly angled zipped pockets
- Elasticated draw cord hem with spring toggles
- Please note Charcoal fleece is a lighter weight fleece
- Interactive fleece



## SHIRTS



Chest sizes available: 30- 60



### Tactical Police Comfort Shirt

**Features:**

- Moisture wicking fabric
- Police Embroidered on Sleeve
- Zip collar
- Short sleeve
- Epaulette loops for button epaulettes
- Close fit
- Black

Chest sizes available: 30- 60



### Tactical Security Comfort Shirt

**Features:**

- Moisture wicking fabric
- Security Embroidered on Sleeve
- Zip collar
- Short sleeve
- Epaulette loops for button epaulettes
- Close fit
- Black



• Chest sizes available: 30- 60



### Tactical Comfort Shirt

**Features:**

- Moisture wicking fabric
- Space to Embroider
- Zip collar
- Short sleeve
- Epaulette loops for button epaulettes
- Close fit
- Black

## SHIRTS



Sizes available: XS- 2XL



### Long Sleeve Thermal Skin Base Layer

**Features:**

- Thermal protection keeps you warm when it's cold
- Enhance circulation to increase oxygen delivery to active muscles and help clear blood lactate
- Eliminate chafing with flatlock seams
- Comfortable jacquard waistband with bonded tape finish anchors onto hips
- Shaped crotch for comfort
- Built-in compression panels to stabilise your muscles, reduce tissue damage and power up your performance, they're your go-to gear for winter sport



Sizes available: 2XS- 7XL



### PS017-0000-005 Aqua Pique Knit Polo Shirt

**Features:**

- Premium poly/cotton fabric
- 320 gsm
- Contoured ribbed collar
- Taped back neck
- Three button placket front
- Contoured ribbed cuffs.
- Saddle shoulder polo shirt
- Side slit on lower sides of hem for comfort



# TROUSERS



Sizes available: 24" - 60"



## TR002-0000-005 Aqua Work Wear Cargo Trousers



### Features:

- Fabric: Premium polyester cotton fabric for a durable outer and comfortable inner against skin.
- Two vertical with a small slant hip pockets.
- Two side cargo pockets c/w external flaps
- External access knee pad pocket all with self-fabric lining.
- Fasteners: Front brass zip and touch'n'close on pockets.
- A concealed jean style button fastening



Sizes available: S-XXL



## Tactlite TDU Trousers Black



### Features:

- Strong 6.14-oz., 65% polyester/35% cotton ripstop
- Teflon treated for stain, liquid and soil resistance
- Cargo pockets with built-in Back-up Belt System can carry additional AR magazines or other gear
- Self-adjusting comfort-waist has no irritating metal buckles
- Triple-stitching and 40-plus bartacks in high-stress areas





## TROUSERS



Sizes available: 30" - 44"



### Kombat UK Black Trouser

#### Features:



- Polycotton material makes a tough and durable
- Four oversized belt loops
- 6 X pockets (2 x front, 2 x back and 2 x cargo pockets on the leg)



- Adjustable side buckles and leg ties



- Zip fly
- Inseam: 32"
- 65%/35% Polycotton

## TROUSERS



Sizes available: 30" - 44"



### Kombat UK Black BDU Ripstop Combat Trousers

**Features:**

- 6 x pockets
- Ankle drawstrings
- Waist adjusters
- Button fly
- Inseam: 32"
- 65%/35% polycotton ripstop



## FOOTWEAR



Available in UK sizes 6- 12



### Kombat UK Tactical Pro 6 Side Zip Boot Black

**Features:**

- Black leather and nylon boot
- 3M Thinsulate lining
- Heavy duty fast access SBS side zip
- Patented Kombat UK sole unit
- Oil resistant sole with steel shank
- Nylon laces
- ABS speed lace system
- Rubber heel
- Removable EVA inner sole



Available in UK sizes 4- 13



### Kombat UK Spec-Ops Recon Side Zip Boot Black

**Features:**

- Leather & 1000 denier Cordura design
- Dual YKK zip technology
- Nylon Laces
- Durable anti-slip EVA sole
- EVA removable insole



Available in UK sizes 3- 13



### Kombat UK Patrol Boot

**Features:**

- Padded suede collar
- 3M Thinsulate lining
- Removable insole
- PU anti slip sole



## ACCESSORIES



### Bollé Rush Safety Glasses Clear EP250-0000-041

#### Features:

- Safety glasses with clear lenses are essential indoors
- Bollé Safety clear lenses provide 90% light transmission
- Is compatible with the PLATINUM anti-fog coating
- Polycarbonate lens
- PC/PVC frame
- Upper Protection
- Non-Slip Temples
- Adjustab Le Non-Slip B Ridge



### Bollé Rush Safety Glasses Smoke

#### Features:

- Filters UVA and UVB (99.99%).
- Compatible with our exclusive double-sided PLATINUM anti-fog and anti-scratch coating
- Polycarbonate lens
- PC/PVC frame
- Upper Protection
- Non-Slip Temples
- Adjustab Le Non-Slip B Ridge



### Bollé Blast Safety Goggle EP148

#### Features:

- Safety glasses with clear lenses are essential indoors.
- Panoramic field of view
- Wide choice of frame types for all applications
- Possible to wear a half-mask respirator
- Vented- indirect ventilation frame type
- Polycarbonate lens



### Bollé Blast Half-Visor EP147

#### Features:

- Polycarbonate half-visor
- Protection against liquids
- For use with the Bollé Blast safety goggles (available separately) to create a full face shield
- Medium-energy impact protection
- Suitable for use in extreme temperatures between -5°C & +55°C





## ACCESSORIES



### Day Back Pack

**Features:**

- 17"(H) x 10"(W) x 9"(D) approximately- 28 Litre total capacity
- Made from 1000 denier waterproof Cordura
- Molle compatible with Molle tabs and compartments all over
- Large main compartment with zipped pouch and mesh pocket
- 3 additional zipper pockets and storage compartments,
- Water repellent lining
- Hydration bladder compatible
- Padded back and shoulder straps
- Breathable Mesh backing
- Side adjustable webbing straps
- Top carry handle
- Heavy duty zippers
- Adjustable padded shoulder straps
- Padded back with breathable mesh backing



### Police Patrol Bag

**Features:**

- Main Compartment 16.4 Ltrs
- Total Size 20 Ltrs
- Made from specially selected fabrics
- Lightweight & Durable



# ACCESSORIES



## Police Duty Kit Bag



### Features:

- Designed with specifically sourced materials and components
- Large main compartment measures 50cm long by 30cm wide by 30cm deep and contains an adjustable or removable central divider
- Padded & protected walls provide protection and structure
- Designed to organize smaller equipment items with individual compartments on the right hand side for phones, stationery, handcuffs and/or a pocket torch
- Additional padded square pocket on each side that can accommodate an iPad size tablet, Kindle or A4 notebook
- Can be carried with its shoulder strap which has a padded, rubberised section at the point of contact for optimal comfort and grip, or using the two carry handles which are fitted with ergonomically designed



## NEBO 12K

### 55 Light Modes

- Turbo (12,000 lumens): 30 second intervals\* / 220 meters.
- High (7000 lumens): 2 hours / 164 meters
- Medium (3000 lumens): 3 hours / 114 meters
- Low (300 lumens): 12 hours / 36 meters
- Strobe (12,000 lumens): 2 hours / 220 meters

### Design

- USB-C rechargeable & USB power bank
- 2x adjustable zoom
- Smart Power Control (SPC)
- Direct-to-Low
- Power indicator
- Closed-Loop Temperature Control
- Waterproof (IP67) and impact-resistant

### Accessories

- USB-C to USB charging cable

## ACCESSORIES



### NEBO Torch 2K Rechargeable Flashlight

#### 5 Light Modes

- Turbo (2,000 lumens)- 30 second intervals\* / 184 meters
- High (500 lumens)- 1.5 hours / 100 meters
- Medium (200 lumens): 2 hours / 60 meters
- Low (35 lumens)- 9 hours / 25 meters
- Strobe (1,000 lumens)- 1.5 hours / 125 meters



#### Design

- Rechargeable
- Anodised aircraft-grade aluminium; water and impact-resistant
- Smart Power Control
- Direct-to-Low
- Removable steel belt/pocket clip
- Power Memory Recall

#### Accessories

- MagDock USB charging cable included



### NEBO Luxtreme

#### 4 Light Modes

- High (500 lumens): 3 hours / 900 meters
- Medium (250 lumens): 6 hours / 636 meters
- Low (50 lumens): 15 hours / 201 meters
- Strobe (400 lumens): 4 hours / 805 meters

#### Design

- USB-C Rechargeable
- Smart Power Control (SPC)
- Direct-to-Low
- Power indicator
- Battery charging indicator
- Anodized aircraft-grade aluminum
- Water (IPX6) and impact-resistant

#### Accessories

- USB-C to USB charging cable



## ACCESSORIES



Sizes available: S - XL



### Duty Belt

Features:

- Lightweight
- Designed to take all pouches for 2" duty belts
- Compatible with all issue and non-issue belt equipment
- Tri-lock belt buckle system
- High density polymer core

Sizes available: S- XL



### Uniform Comfort Belt

Features:

- Low Profile
- Snap Lock Belt Buckle
- Non-Metallic – Ideal for working around metal detectors
- 25 % from Tactical stretch fabric for comfort



Sizes Available: One Size



### AC018-0000-005 Rhino Tec Knee Pad Foam Inserts

Features:

- KNEE PAD INSERTS 100% Polyethylene
- Size 21.3 cm x 16.5 cm
- Specially shaped to offer maximum protection to the knee
- Ergonomically designed knee pad
- Fits all workwear
- Soft and flexible EVA material
- Maximum protection to the knee
- Easily cut with scissors to fit smaller trousers
- Available in: No Colour





## ACCESSORIES



Sizes available: S- 2XL



### Kevlar Slash Resistant Search Glove

**Features:**

- 100% lined with slash resistant KEVLAR® Aramid Fibre for added protection
- Water resistant, full grain, black leather outer
- Hook and loop wrist wrap closure system
- Fantastic temperature control
- Very little touch sensitivity lost by wearing the gloves
- Very affordable for wide range of users

## SIZING GUIDE

*Measurements given in the size guides are for our own brand clothing only. Measurements may vary when offering alternative brand Clothing (Please request or refer to fitting Charts).*

*The size guides apply to body measurements only and do not match the measurements of the clothing. Clothing measurements will vary according to style, fabric, ease allowance and desired fit, but will fit the body size indicated on the size guides.*

*It is recommended that you use the guidelines in the charts and on the illustrations, on how to measure yourself. It is advisable to take actual body measurements, rather than measuring over clothes or taking sizes from existing clothes.*

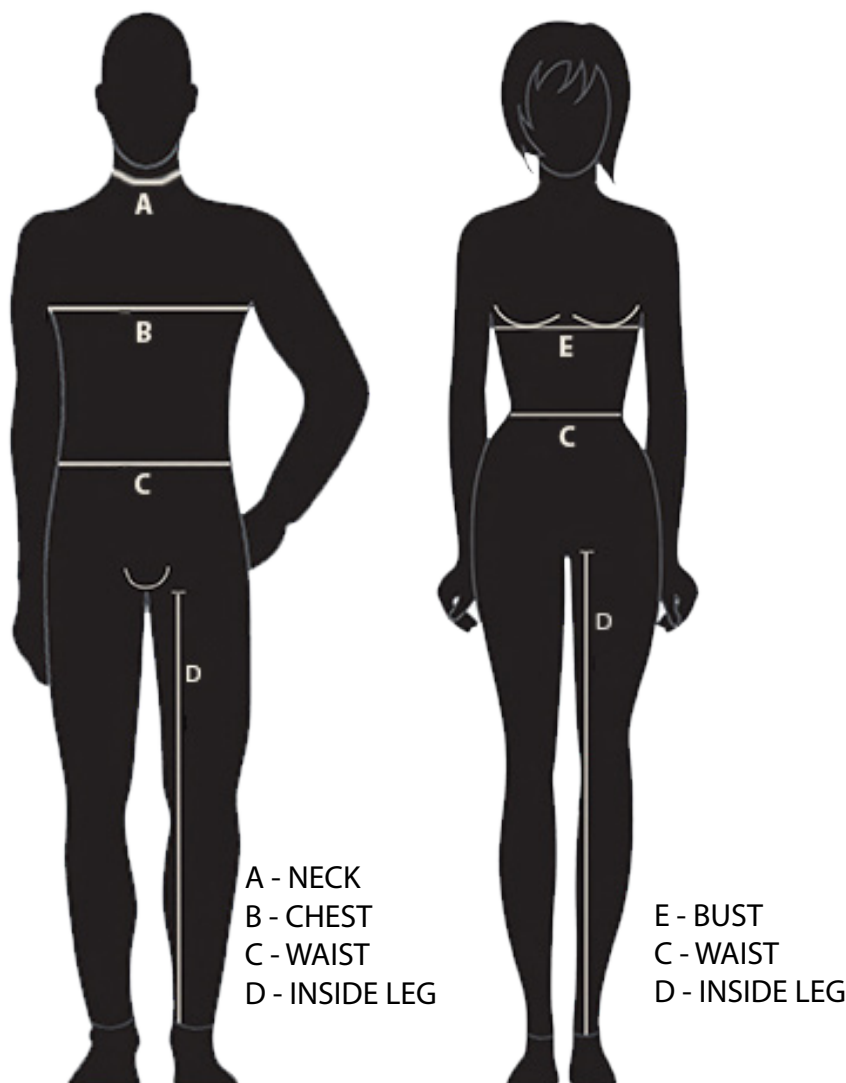
*\*A [Neck] - this is a circumference of your neck.*

*\*B [Chest] - measure the chest around the fullest part, placing the tape close up under the arms making sure the tape is well up at the back and level all around the body.*

*\*C [Waist] - measure around the natural waistline over any undergarments that may be worn.*

*\*D [Inside Leg] - measure from the top of the inside leg at the crutch to the hem (ankle).*

*\*E [Bust] - measure the chest around the fullest part, placing the tape close up under the arms making sure the tape is well up at the back and level all around the body.*



## SIZING GUIDE

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Project Name		Project Manager		Project Sponsor		Project Steering Committee		Project Charter		Project Plan		Project Execution		Project Monitoring & Control		Project Closure	
1	Project A	John Doe	Jane Smith	Bob Johnson	Charlie Brown	David Miller	Eve Davis	Frank White	Grace Black	Henry Green	Ivy Blue	Jack Yellow	Karen Purple	Liam Red	Mia Orange	Noah Silver	Olivia Gold
2	Project B	John Doe	Jane Smith	Bob Johnson	Charlie Brown	David Miller	Eve Davis	Frank White	Grace Black	Henry Green	Ivy Blue	Jack Yellow	Karen Purple	Liam Red	Mia Orange	Noah Silver	Olivia Gold
3	Project C	John Doe	Jane Smith	Bob Johnson	Charlie Brown	David Miller	Eve Davis	Frank White	Grace Black	Henry Green	Ivy Blue	Jack Yellow	Karen Purple	Liam Red	Mia Orange	Noah Silver	Olivia Gold
4	Project D	John Doe	Jane Smith	Bob Johnson	Charlie Brown	David Miller	Eve Davis	Frank White	Grace Black	Henry Green	Ivy Blue	Jack Yellow	Karen Purple	Liam Red	Mia Orange	Noah Silver	Olivia Gold
5	Project E	John Doe	Jane Smith	Bob Johnson	Charlie Brown	David Miller	Eve Davis	Frank White	Grace Black	Henry Green	Ivy Blue	Jack Yellow	Karen Purple	Liam Red	Mia Orange	Noah Silver	Olivia Gold
6	Project F	John Doe	Jane Smith	Bob Johnson	Charlie Brown	David Miller	Eve Davis	Frank White	Grace Black	Henry Green	Ivy Blue	Jack Yellow	Karen Purple	Liam Red	Mia Orange	Noah Silver	Olivia Gold
7	Project G	John Doe	Jane Smith	Bob Johnson	Charlie Brown	David Miller	Eve Davis	Frank White	Grace Black	Henry Green	Ivy Blue	Jack Yellow	Karen Purple	Liam Red	Mia Orange	Noah Silver	Olivia Gold
8	Project H	John Doe	Jane Smith	Bob Johnson	Charlie Brown	David Miller	Eve Davis	Frank White	Grace Black	Henry Green	Ivy Blue	Jack Yellow	Karen Purple	Liam Red	Mia Orange	Noah Silver	Olivia Gold
9	Project I	John Doe	Jane Smith	Bob Johnson	Charlie Brown	David Miller	Eve Davis	Frank White	Grace Black	Henry Green	Ivy Blue	Jack Yellow	Karen Purple	Liam Red	Mia Orange	Noah Silver	Olivia Gold
10	Project J	John Doe	Jane Smith	Bob Johnson	Charlie Brown	David Miller	Eve Davis	Frank White	Grace Black	Henry Green	Ivy Blue	Jack Yellow	Karen Purple	Liam Red	Mia Orange	Noah Silver	Olivia Gold

Worksheet: Growth/Concns							Date: _____	
Growth/Concns	Bart		Roger		Lang			
	1st month	2nd month	1st month	2nd month	1st month	2nd month		
1st month								
2nd month								
3rd month								
4th month								
5th month								
6th month								
7th month								
8th month								
9th month								
10th month								

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Category	Item	Value	Unit
Material	Concrete	100	m³
	Steel	50	kg
	Brick	200	kg
	Sand	100	m³
Labor	Construction Worker	10	hr
	Electrician	5	hr
	Plumber	5	hr
	Painter	5	hr
Equipment	Excavator	10	hr
	Truck	5	hr
	Generator	5	hr
	Compressor	5	hr

