



# HIGH VISIBILITY & SPECIAL HAZARD

## PROMINENT & LONG LASTING

Our range of high visibility clothing ensures the wearer remains seen in all conditions whatever the task.

Suppliers of

**WARRIOR**



Personal protective equipment regulations 2002 and the personal protective equipment at work regulations 1992 (as amended) require many factors to be taken into account to ensure the correct clothing is chosen for a particular task

*See page 140 for more details*



## HIGH VISIBILITY CLOTHING

High visibility clothing is a form of personal protective equipment (PPE) worn so that people can be easily seen by drivers and pedestrians on site. High visibility clothing should be used alongside other safety measures, particularly by those working near traffic. The clothing must be properly designed using highly reflective material so that the wearer can be easily seen against any background.



**EN ISO 20471 is the specification for all high visibility clothing**

There are 3 classes of garment type based on the levels of conspicuity they provide. On all garments the retro-reflective tape must not be less than 50mm wide

### **Class 1** Lowest protection level

Minimum background material 0.14m<sup>2</sup>  
Minimum retro-reflective material 0.10m<sup>2</sup>

### **Class 2** Intermediate protection level

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

### **Class 3** Highest protection level

Minimum background material 0.80m<sup>2</sup>  
Minimum retro-reflective material 0.20m<sup>2</sup>



**Personal protective equipment regulations 2002 and the personal protective equipment at work regulations 1992 (as amended) give the main requirements.**

### **Is it suitable for the risk?**

Choice of clothing should take into account ambient and artificial lighting conditions at the workplace, and the effect of conditions such as fog and snow.

For some jobs an HV waistcoat, for example, may be all that is needed, but those workers who are particularly at risk, eg from moving vehicles (marshalls or maintenance workers), may need full body HV clothing so that they are as visible as possible to the driver. HV clothing should provide adequate protection both during the day and at night, as well as in adverse weather. As a rule: the darker the conditions or worksite, the greater the amount of HV clothing required.

To be effective HV clothing should be of a colour that will allow the wearer to stand out against the ambient background found in the working environment. In practice the best colours for this purpose are likely to be day-glo, or fluorescent yellow. Where necessary the clothing should also incorporate retro-reflective material to make the wearer visible when seen in headlights in poor lighting conditions or during darkness. This may require reflective strips at or below waist level on waistcoats or jackets, or strips on trousers.

### **Is it suitable for the job?**

People working in warehouses may find that some types of loose fitting tabard may snag on moving machinery parts. Also HV coats may be too warm in summer months, in which case, waistcoats or overalls with the appropriate HV qualities could be supplied. Remember: PPE must always be suitable for the work; if the way of working changes - check that the PPE is still suitable.

### **Is it suitable for the wearer?**

HV clothing should be comfortable and fit the wearer properly. It should cause the minimum of restriction in the wearer's movement.

### **Is it compatible with other forms of PPE?**

If two or more types of PPE are worn, they should not interfere with each other. Therefore, in the case of aircraft servicing staff for example, protective clothing for chemical spills should also provide the necessary level of conspicuity. Similarly, wet or cold weather clothing should have suitable HV qualities or be capable of being worn under HV garments.

### **Are there any standards which the clothing should meet?**

HV clothing should be manufactured to a recognised standard. The new British Standard for high visibility warning clothing is BS EN ISO20471. This is a harmonised European standard produced with the legal requirements for PPE in mind. Clothing which conforms to the standard is marked with a pictogram like this:



The first number (X) indicates the class of conspicuity, this depends on the minimum area of conspicuous materials that are incorporated into the clothing, with Class 3 being the best and Class 1 the lowest; the second number (Y) indicates the retroreflection performance with Class 2 being more visible than Class 1 when seen in headlights during darkness. The standard gives specifications for coveralls, jackets, waistcoats, tabards, trousers and harnesses.

## WARRIOR

### UTAH ANORAK

Class 3 coat. Fully taped seams, 2 way size 8 zips, concealed hood comes with draw cord and quilt lining. Studded storm flap, anti-wicking cuffs and hem, 2 front pockets with flaps, 1 inner pocket with Velcro fastening.

- ✓ EN ISO 20471
- ↕ Small - XXXXXXL
- 📦 1x case = 10 items
- 👉 Yellow



Product Code: 0118BFAG

## WARRIOR

### NEVADA JACKET

Class 3 coat. 300D outer, reflective tape. Fully taped seams, 2 way zip, concealed hood. Quilt lining, storm flap, anti-wicking strips. 2 front pockets, 1 inner pocket with velcro tab, mobile phone and pen pocket, access embroidery. GORT 3279.

- ✓ EN ISO 20471
- ↕ Small - XXXXXXL (5XL & 6XL - yellow only)
- 📦 1x case = 10 items
- 👉 Yellow, Orange



Product Codes:  
0118FAG (Yellow) 0118FAGO (Orange)

## WARRIOR

### DELRAY TROUSER

Class 1 trouser. Heavyweight Teflon coated cotton/polyester trouser comes with internal knee pad pockets and mobile phone pocket. Comes with 2 bands of 50mm 50 wash reflective tape.

- ✓ EN ISO 20471
- ↕ 28" - 48" Reg Leg
- 📦 1x case = 20 items
- 👉 Yellow



Product Code: 0118DELY

## WARRIOR

### DENVER 2 TONE JACKET

Class 3 coat. 300D outer. Fully taped seams, 2 way zip, concealed hood. Quilt lining, storm flap, anti-wicking strips. 2 front pockets, 1 inner pocket with velcro tab, mobile phone and pen pocket, access embroidery. GORT 3279.

- ✓ EN ISO 20471
- ↕ Small - XXXXL
- 📦 1x case = 10 items
- 👉 Orange/Navy



Product Code: 0118FAGTTN

## WARRIOR

### MEMPHIS BOMBER JACKET

Class 3 bomber jacket, 300D outer. Fully taped seams, concealed hood, micro-fibre fleece lining, storm flap, self hemmed waistband and cuffs. 2 side pockets, 1 inner pocket, mobile phone and pen pocket, access embroidery. GORT 3279.

- ✓ EN ISO 20471
- 📦 1x case = 10 items
- ↕ Small - XXXXL
- 👉 Yellow, Orange



Product Codes:  
0118FAGB (Yellow) 0118FAGBO (Orange)

## WARRIOR

### DELRAY TROUSER

Class 1 trousers. Heavyweight Teflon coated cotton/polyester trouser comes with internal knee pad pockets and mobile phone pocket. Comes with 2 bands of 50mm 50 wash reflective tape. GORT 3279.

- ✓ EN ISO 20471
- ↕ 28" - 48" Reg Leg  
30" - 46" Tall Leg
- 📦 1x case = 20 items
- 👉 Orange



Product Code: 0118DELO

## WARRIOR

### SEATTLE TROUSER

Class 1 trouser. PU coated polyester outer shell, fully taped seams, side access, elasticated waistband with adjustable press-stud to ankles.

- ✓ EN ISO 20471
- ↕ Small - XXXXL
- 📦 1x case = 20 items
- 👉 Yellow, Orange



Product Codes: 0118FAGTR (Yellow) 0118FAGTRO (Orange)

## WARRIOR

### DENVER 2 TONE JACKET

Class 3 coat. 300D outer. Fully taped seams, 2 way zip, concealed hood. Quilt lining, storm flap, anti-wicking strips. 2 front pockets, 1 inner pocket with velcro tab, mobile phone and pen pocket, access embroidery.

- ✓ EN ISO 20471
- ↕ Small - XXXXL
- 📦 1x case = 10 items
- 👉 Yellow/Navy



Product Code: 0118FAGTT



## WARRIOR

### ORANGE WAISTCOAT

Class 2 waistcoat. Knitted polyester fabric, 2 bands and brace style with velcro front fastening.

- ✓ EN ISO 20471
- ↕ Medium - XXXXXXL
- 📦 1x case = 100 items
- 👕 Orange



Product Code: 0118WBFAGO

## WARRIOR

### HUDSON FLEECE

Full zip fastening, 2 front slanted zip-fastening pockets, draw cord and toggle at waist. 360gsm fleece. Class 3. GORT 3279.

- ✓ EN ISO 20471
- ↕ Small - 4XL
- 📦 1x case = 10 items
- 👕 Yellow, Orange



Product Codes: 0118FAGF (Yellow) 0118FAGFO (Orange)

## WARRIOR

### DAYTONA POLO

Class 2 polo shirt. Birdeye fabric. 3 button placket fastening, 2 band and brace style with grey collar. GORT 3279.

- ✓ EN ISO 20471
- ↕ Medium - XXXXL
- 📦 1x case = 20 items
- 👕 Yellow, Orange



Product Codes: 0118NWBDAY (Yellow) 0118NWBDAYO (Orange)

## WARRIOR

### NEWARK UNLINED JACKET

Class 3 jacket. Fully taped seams, full length 8 zip, concealed hood. Velcro storm flap, elasticated cuffs, 2 side pockets, inner pocket, mobile phone and pen pocket, access embroidery zip.

- ✓ EN ISO 20471
- ↕ Small - XXXXL
- 📦 1x case = 10 items
- 👕 Yellow



Product Code: 0118FAGS

## WARRIOR

### YELLOW WAISTCOAT

Class 2 waistcoat. Knitted polyester fabric, 2 bands and brace style with velcro front fastening.

- ✓ EN ISO20471
- ↕ Medium - XXXXXXL
- 📦 1x case = 100 items
- 👕 Yellow



Product Code: 0118WBFAG

## WARRIOR

### PHOENIX BODYWARMER

Class 2 reversible body warmer. PU coated polyester outer shell, quilted polyester/cotton inner with polyester padding. Zip front fastening, knitted collar. Lower pockets on yellow/orange side. GORT 3279.

- ✓ EN ISO 20471
- ↕ Small - XXXXL
- 📦 1x case = 15 items
- 👕 Yellow, Orange



Product Codes: 0118FAGBW (Yellow) 0118FAGBWO (Orange)

## WARRIOR

### LONG SLEEVED WAISTCOAT

Class 3 long sleeved waistcoat. Knitted polyester fabric, 2 bands and brace style on the body with 2 bands of reflective tape around each arm and Velcro front fastening.

- ✓ EN ISO 20471
- ↕ Medium - XXXXL
- 📦 1x case = 50 items
- 👕 Yellow, Orange



Product Code: 0118WLS (Yellow) 0118WLSO (Orange)

## WARRIOR

### CHILDREN'S WAISTCOAT

Polyester fabric, 2 bands and brace style with Velcro front fastening.

- ✓ EN 1150
- ↕ 4-6, 7-9, 10-13
- 📦 1x case = 100 items
- 👕 Yellow



Product Code: 0118WKFAG

## WARRIOR

### NAVY YELLOW BOMBER

100% polyester PU coating outer, 240g fleece lining. Back collar with concealed hood.



NEW  
PRODUCT  
2016

Product Code: 0118FAGBNY

## WARRIOR

### NAVY YELLOW JACKET

100% polyester with PU coating outer with knitted Inner collar 240g fleece. Back collar with concealed hood.



NEW  
PRODUCT  
2016

Product Code: 0118FAGNY

## WARRIOR

### LONG SLEEVED ORLANDO POLO SHIRT

Class 3 long sleeve polo shirt. Birdeye fabric, 3 button placket fastening, 2 band and brace style with grey collar. GORT 3279.



- ✓ EN ISO 20471
- ✚ Medium - XXXXL
- 📦 1x case = 20 items
- 👕 Yellow, Orange

Product Codes: 0118DAYBY (Yellow)  
0118DAYBO (Orange)

## WARRIOR

### MIAMI SWEATSHIRT

Class 3, EN ISO 20471, GORT 3279, 280 gsm,

- ✚ S - 4XL,
- 📦 1x case = 10 items
- 👕 Yellow, Orange



Product Codes: 0118MIAMIO (Orange) 0118MIAMIY (Yellow)

## WARRIOR

### NAVY YELLOW FLEECE

60% modacrylic 39% cotton 1% carbon fibre 280g fleece. Hem with elastic rope and stopper adjustment.



NEW  
PRODUCT  
2016

Product Code: 0118FAGNY

## WARRIOR

### ORANGE SOFTSHELL

100% polyester. Two lower angled pockets and one upper chest zip pocket on right side. Elasticated drawcord at hem.



NEW  
PRODUCT  
2016

Product Code: 0118MAIO

## WARRIOR

### TULSA BOMBER JACKET

Class 3 bomber jacket. Fully taped seams, size 8 zip fastening and quilt lining. Studded storm flap, elasticated waistband and cuffs. 2 slanting side pockets, 1 inner pocket with button fastening.



- ✓ EN ISO 20471
- ✚ Small - XXXXXXL
- 📦 1x case = 10 items
- 👕 Yellow

Product Code: 0118TUL

We are working hard on our NEW comprehensive range of BR/GORT clothing, which will be available early 2016.

## WARRIOR

### NAVY FLAME RETARDANT JACKET

Heavyweight cotton jacket, flame retardant finish, concealed stud front, 2 breast pockets, comes with concealed stud fastening.

Small - XXXL

EN 11611 and EN 11612

Navy



Product Code: 0118PJ

## WARRIOR

### NAVY FLAME RETARDANT TROUSER

Heavyweight cotton trouser, flame retardant finish, concealed hook and bar front, 2 side pockets, zip fly fastening.

28" - 48" Reg  
28" - 46" Tall

EN 11611 & EN 11612

Navy



Product Code: 0118PT

## WARRIOR

### TYPE 5 & 6 ANTI-STATIC BALACLAVA

Types 5 and 6, Category 3, breathable, offers protection against particles, limited liquid splashes and fine sprays.



Product Code: 0117BC

## WARRIOR

### POLYPROP COVERALL

Polypropylene coverall. Zip fastening, elasticated hood, cuffs and ankles. Protects against dirt, grease and non-hazardous dusts.

Small - XXXL

1x pack = 100 units

Navy & White



Product Codes: 0117BPB (Navy) 0117BPW (White)



### TYVEK CLASSIC XPRT COVERALL

TYVEK® Classic Xpert is the latest generation of our most advanced product for Type 5/6 protection.

New patent pending seam technology, hooded coverall, white external stitched seams, 3 piece hood, Tyvek auto lock zipper and zipper flap, Elasticated hood, cuffs and ankles, glued in waist elastic. Ergonomic design offering enhanced fit and full freedom of movement, larger zip puller and hood/sleeve design which fits the contours of your body and stops the garments riding up. Category 3.

Small - XXXL

1x pack = 25 units

White



Product Code: 0117BP



### TYVEK PROSHIELD FR COVERALL

Hooded coverall protecting your reusable flame-resistant garment from light chemical spray, aerosol, particulates, dirt and grime. ProShield® FR also provides limited protection against heat and flames.

Small - XXXL

1x pack = 25 units

EN ISO 14116



Product Code: 0117BPFR



## WARRIOR

### ULTIMATE COVERALL

Ultimate coverall. Types 5 & 6, Cat. 3, breathable, offers protection against particles, limited liquid splashes and fine sprays, suitable for asbestos removal. Anti-static and lint free.

- ↕ Medium - XXXL
- 📦 1x pack = 50 units
- 👤 White



Product Code: 0117UC

## WARRIOR

### TYPE 5 & 6 COVERALL

Types 5 and 6, Cat. 3, breathable, offers protection against particles, limited liquid splashes and fine sprays, suitable for asbestos removal.

- ↕ Medium - XXXL
- 📦 1x pack = 50 units
- 👤 White



Product Code: 0117WC

## WARRIOR

### NAVY FLAME RETARDANT BOILER SUIT

Heavyweight cotton boilersuit, flame retardant finish, concealed stud front, 2 breast pockets, comes with concealed stud fastening, side pockets.

- ↕ Small - XXXL Reg Leg  
Small - XXXL Tall Leg
- ✅ Conforms to:  
EN 11611 & EN 11612



Product Code: 0118PC

## WARRIOR

### ORANGE FLAME RETARDANT BOILER SUIT

Heavyweight cotton boilersuit, flame retardant finish, concealed stud front, 2 breast pockets, comes with concealed stud fastening, side pockets.

- ↕ Small - XXXL Reg Leg  
Small - XXXL Tall Leg
- ✅ Conforms to:  
EN 11611 & EN 11612



Product Code: 0118PCO

## WARRIOR

### BLUE HAIRNETS

For use in various types of industry.

- 📦 1x pack = 144 units



Product Code: 0117HN

## WARRIOR

### BLUE OVERSHOES

Blue CPE overshoe. Elasticated, fits up to size 16.

- 📦 1x pack = 2000 units



Product Code: 0117OB

We hold a wide range of special hazard protection products in stock. Contact us today to place your order!