

CARBON FIBRE

STAB RESISTANT BODY ARMOUR



DESIGNED &
MANUFACTURED
IN THE UK



Contents



Introduction

In 2021, we replaced our polycarbonate based stab resistant body armour.

Here's why: Based on our comprehensive understanding of today's most realistic and most recent operational risks and threats, polycarbonate as a raw material is simply no longer good enough for use in stab resistant body armour. Its lack of certified spike protection resulted in it simply becoming 'morally' unjustifiable.

For us, carbon fibre composites are 'the future', and the only real reliable and forward-thinking solution. It offers far superior levels of stab protection alongside substantial **weight reduction** and **reduced thickness**. With a Home Office Certification guarantee twice as long as the majority of body armours at 10 years and finally, **fully certified spike protection** all at an extremely **competitive price**.

Carbon fibre offers thoroughly field-tested and dependable protection from the vast majority of knives, machetes, razor blades, shanks and indeed spikes.

Certified spike protection is crucial, especially to correctional and prison officers, but has also become of equal importance to all homeland and private security professionals, simply due to the type of weapons appearing on the streets in recent years.

The reason why we have decided to create this 'new generation' of stab resistant body armour lies in the recent changes of today's society.

Looking especially at Western Europe and many other regions, we have to accept that religious extremism, terrorism, social deprivation, immigration and a general breakdown in society have all contributed to the increasing number of edged weapons being carried, but also the types of edged weapons actually being used.

Today we see truly evil people walking the streets, carrying 'Samurai' swords, meat cleavers and machetes with 60cm (24") long blades, brutally chopping people into pieces in rage or driven by extremism, often committing multiple homicide or mass murder in the process.

Our key objective is to supply you, the Homeland and Private Security Professional with the very best, most reliable and operationally sound body armour, effectively increasing your chance of coming home safely after work. For this reason, we say: "goodbye polycarbonate... and welcome carbon fibre."

Robert Kaiser, Founder & CEO
PPSS Group



Covert Black

#700130/BLK

Protective Panels: **CAST KR1 / SP1 Stab & Spike**
VPAM W5 Blunt Force Trauma
#600101 #600102 #600103

Our next generation of stab resistant body armour not only provides protection against knife attacks and stabbings but now affords protection from spikes, improvised weapons, and blunt force trauma - all officially tested and certified in accordance with governing standards.

No other stab resistant body armour offers this degree of protection; the real protection levels needed when confronted with the real threats of today.

We manufacture our body armour to mitigate the risks faced, based not only on our own front-line experience but from yours too.



Features and Benefits

- Ultra Lightweight
- Protects all the vital organs
- Ergonomically cast for comfort and fit
- Redesigned for quick donning
- Will not degrade unlike other body armour materials
- Improved, advanced materials that will withstand impact from today's realistic threats

Who Is This Product Suitable For?

Our stab resistant body armour is suitable for anyone who may be confronted with, or faced with dealing with violence and aggression, particularly those working in the following front-line professions:

- Healthcare Security
- University Security
- Local Government Enforcement
- Corrections
- Borders Agencies
- Facilities Management
- Private Security Companies
- Door Supervisors
- Parking Enforcement Officers
- Court Security
- Public Transport
- Shopping Centre Security
- Airport Security
- Stadiums Security
- Public Attraction Security Teams
- Revenue Collection Officers
- Eviction Officers
- And any other profession where a covert security presence is deemed appropriate

Materials

Protective Panel

Approx. 3.6mm thin FortiPLY, our advanced carbon fibre composite. Edges are feathered for comfort.

Outer Cover

Extremely durable and of extreme quality our covers are made of PU coated Polyester; featuring our high-tech spacer fabric providing the ultimate level of comfort and allowing cool air to circulate around the body.

Fully adjustable hook & loop side and shoulder fastenings. Minimalistic design to allow for covert use without protrusions whilst maintaining maximum appropriate levels of protection.

Protection Levels (panels):

CAST certification - **KR1 (Knife)**
 CAST certification - **SP1 (Spike)**
 VPAM certification - **W5 (Blunt Force)**
 NIJ certification - **Threat Level 1 (Spike)**
 NIJ certification - **Threat Level 1 (Edged Blade)**

Sizes

S - 3XL ('Wide' fitting also available at no additional cost)

Weight (set of panels)

1.5kg (based on size 'Large')

Care & Maintenance

Panel easily removed to allow for machine washing of outer cover

Colour

Black

Place of Manufacture

UK



DESIGNED &
 MANUFACTURED
 IN THE UK

03



Covert White

#700135/WHT

Protective Panels: **CAST KR1 / SP1 Stab & Spike**
VPAM W5 Blunt Force Trauma
#600101 #600102 #600103

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 NIJ certification - **Threat Level 1 (Edged Blade)**

Sizes

S - 3XL ('Wide' fitting also available at no additional cost)

Weight (set of panels)

1.5kg (based on size 'Large')

Care & Maintenance

Panel easily removed to allow for machine washing of outer cover

Colour

White

Place of Manufacture

UK



DESIGNED &
 MANUFACTURED
 IN THE UK

04



Overt Black

#700131/BLK

Protective Panels: **CAST KR1 / SP1 Stab & Spike**
VPAM W5 Blunt Force Trauma
#600101 #600102 #600103

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 VPAM certification - **W5 (Blunt Force)**
 NIJ certification - **Threat Level 1 (Spike)**
 NIJ certification - **Threat Level 1 (Edged Blade)**

Sizes

S - 3XL ('Wide' fitting also available at no additional cost)

Weight (set of panels)

1.5kg (based on size 'Large')

Care & Maintenance

Panel easily removed to allow for machine washing of outer cover

Colour

Black

Place of Manufacture

UK



DESIGNED &
 MANUFACTURED
 IN THE UK

05



Certificate Number 11424

Overt Navy Blue

#700131/NVY

Protective Panels: **CAST KR1 / SP1 Stab & Spike
VPAM W5 Blunt Force Trauma**
#600101 #600102 #600103

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Materials

Protective Panel

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Outer Cover

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CAST certification - **SP1 (Spike)**
VPAM certification - **W5 (Blunt Force)**
NIJ certification - **Threat Level 1 (Spike)**
NIJ certification - **Threat Level 1 (Edged Blade)**

Sizes

S - 3XL ('Wide' fitting also available at no additional cost)

Weight (set of panels)

1.5kg (based on size 'Large')

Care & Maintenance

Panel easily removed to allow for machine washing of outer cover

Colour

Navy Blue

Place of Manufacture

UK



DESIGNED &
MANUFACTURED
IN THE UK

06



Overt Black with Reflective Tape

#700132/BLK

Protective Panels: **CAST KR1 / SP1 Stab & Spike
VPAM W5 Blunt Force Trauma**
#600101 #600102 #600103

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Features and Benefits

- Ultra Lightweight
- Protects all the vital organs
- Ergonomically cast for comfort and fit
- Redesigned for quick donning
- Will not degrade unlike other body armour materials
- Improved, advanced materials that will withstand impact from today's realistic threats
- EN ISO 17353 Certified

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- Private Security Companies
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- Court Security
- Public Transport
- Shopping Centre Security
- Airport Security
- Stadiums Security
- Public Attraction Security Teams
- Revenue Collection Officers
- Eviction Officers
- And any other profession where a covert security presence is deemed appropriate

Materials

Protective Panel

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Outer Cover

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Protection Levels (panels):

CAST certification - **KR1 (Knife)**
CAST certification - **SP1 (Spike)**
VPAM certification - **W5 (Blunt Force)**
NIJ certification - **Threat Level 1 (Spike)**
NIJ certification - **Threat Level 1 (Edged Blade)**

Sizes

S - 3XL ('Wide' fitting also available at no additional cost)

Weight (set of panels)

1.5kg (based on size 'Large')

Care & Maintenance

Panel easily removed to allow for machine washing of outer cover

Colour

Black

Place of Manufacture

UK



DESIGNED &
MANUFACTURED
IN THE UK

07



Certificate Number 11424



Overt Navy Blue with Reflective Tape

#700132/NVY

Protective Panels: **CAST KR1 / SP1 Stab & Spike
VPAM W5 Blunt Force Trauma**
#600101 #600102 #600103

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Features and Benefits

- Ultra Lightweight
- Protects all the vital organs
- Ergonomically cast for comfort and fit
- Redesigned for quick donning
- Will not degrade unlike other body armour materials
- Improved, advanced materials that will withstand impact from today's realistic threats
- EN ISO 17353 Certified

Who Is This Product Suitable For?

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- Shopping Centre Security
- Airport Security
- Stadiums Security
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Materials

Protective Panel

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CAST certification - **KR1 (Knife)**
CAST certification - **SP1 (Spike)**
VPAM certification - **W5 (Blunt Force)**
NIJ certification - **Threat Level 1 (Spike)**
NIJ certification - **Threat Level 1 (Edged Blade)**

Sizes

S - 3XL ('Wide' fitting also available at no additional cost)

Weight (set of panels)

1.5kg (based on size 'Large')

Care & Maintenance

Panel easily removed to allow for machine washing of outer cover

Colour

Navy Blue

Place of Manufacture

UK



DESIGNED &
MANUFACTURED
IN THE UK

08



Certificate Number 11424



Overt Yellow with Reflective Tape

#700132/YEL

Protective Panels: **CAST KR1 / SP1 Stab & Spike
VPAM W5 Blunt Force Trauma**
#600101 #600102 #600103

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Features and Benefits

- Ultra Lightweight
- Protects all the vital organs
- Ergonomically cast for comfort and fit
- Redesigned for quick donning
- EN ISO 20471 Certified (Hi-Vis Workwear)
- Will not degrade unlike other body armour materials
- Improved, advanced materials that will withstand impact from today's realistic threats

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- Court Security
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- Shopping Centre Security
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- And any other profession where a covert security presence is deemed appropriate

Materials

Protective Panel

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Outer Cover

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 CAST certification - **SP1 (Spike)**
 VPAM certification - **W5 (Blunt Force)**
 NIJ certification - **Threat Level 1 (Spike)**
 NIJ certification - **Threat Level 1 (Edged Blade)**

Sizes

S - 3XL ('Wide' fitting also available at no additional cost)

Weight (set of panels)

1.5kg (based on size 'Large')

Care & Maintenance

Panel easily removed to allow for machine washing of outer cover

Colour

Yellow

Place of Manufacture

UK



DESIGNED &
MANUFACTURED
IN THE UK

09



Certificate Number 11424

Overt Black with Zip

#700133/BLK

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VPAM W5 Blunt Force Trauma**
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Features and Benefits

- Ultra Lightweight
- Protects all the vital organs
- Ergonomically cast for comfort and fit
- Fitted with premium YKK® zippers for durability and reliable performance
- Will not degrade unlike other body armour materials
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VPAM certification - **W5 (Blunt Force)**
NIJ certification - **Threat Level 1 (Spike)**
NIJ certification - **Threat Level 1 (Edged Blade)**

Sizes

S - 3XL ('Wide' fitting also available at no additional cost)

Weight (set of panels)

1.5kg (based on size 'Large')

Care & Maintenance

Panel easily removed to allow for machine washing of outer cover

Colour

Black

Place of Manufacture

UK



DESIGNED &
MANUFACTURED
IN THE UK

10



Certificate Number 11424



Overt Navy Blue with Zip

#700133/NVY

Protective Panels: **CAST KR1 / SP1 Stab & Spike
VPAM W5 Blunt Force Trauma**
#600101 #600102 #600103

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NIJ certification - **Threat Level 1 (Edged Blade)**

Sizes

S - 3XL ('Wide' fitting also available at no additional cost)

Weight (set of panels)

1.5kg (based on size 'Large')

Care & Maintenance

Panel easily removed to allow for machine washing of outer cover

Colour

Navy Blue

Place of Manufacture

UK



DESIGNED &
MANUFACTURED
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11



Certificate Number 11424



Overt Reflective Black & Zip

#700134/BLK

Protective Panels: **CAST KR1 / SP1 Stab & Spike
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Sizes

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Weight (set of panels)

1.5kg (based on size 'Large')

Care & Maintenance

Panel easily removed to allow for machine washing of outer cover

Colour

Black

Place of Manufacture

UK



DESIGNED &
MANUFACTURED
IN THE UK

12



Overt Reflective Navy Blue & Zip

#700134/NVY

Protective Panels: **CAST KR1 / SP1 Stab & Spike**
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 NIJ certification - **Threat Level 1 (Edged Blade)**

Sizes

S - 3XL ('Wide' fitting also available at no additional cost)

Weight (set of panels)

1.5kg (based on size 'Large')

Care & Maintenance

Panel easily removed to allow for machine washing of outer cover

Colour

Navy Blue

Place of Manufacture

UK



DESIGNED &
 MANUFACTURED
 IN THE UK

13



Certificate Number 11424



Testimonials

Elite Medical & Ambulance Services Ltd

“Currently I have two teams of 3 staff who are deployed to referrals where the risk assessment suggests that the use of a higher level of PPE would be beneficial. These are usually very high risk 135 warrants for Mental Health patients or where we are supporting colleagues from local police forces in the community or health-based places of safety.

The first thing to note, having worn a multitude of different body armours while deployed on security details over the last 2 decades is the comfort and adjustability with the PPSS range. They are light but sturdy and there isn't a huge amount of excess movement when walking, driving or physically engaging with a patient. The classic under arm sores rubbing around the chest and between the shoulder blades isn't apparent with these. Another thing that my staff comment on is that they don't get too hot wearing them, as often we will still use communicative techniques before using physical skills, which can sometimes take an hour or so. Lastly for me, from a business perspective is the look. The ambulance green just fits in so well with our standard uniform that many people think we are wearing tactical vests rather than body armour and many don't comment at all. We went for the option with front pockets which are so useful and PPSS made us matching Ambulance logos that match standard ambulance uniforms that attach to the armour by hook and loop.

All in all, they are great, and we are very happy with the equipment”

Milton Keynes University Hospital NHS Foundation Trust

“I would like to write in and compliment the level of protection given by your current overt stab vests you supply to our security team here at MKUH.

Two weeks ago I was on duty and was called to our ED department where we had been watching over a very poorly mental health patient, this patient had smashed a porcelain plate and was holding a sharp piece in each hand I stood myself at a door to the room and made an attempt to verbally talk the patient down when he suddenly made a advance towards me stabbing at my face.

Other team members and I then made entry to the room and began to take control of the patient, during this one of his arms became free and he started stabbing ferociously at my abdomen, The team and I then managed to regain control and disarm him.

If I had not been wearing my vest, I believe the outcome would have been very different for me, and since the incident I have all confidence in the level of protection the vest gives, and we have instructed our agency staff management to supply their staff with vests recommending PPSS as their choice.”

Peterborough Hospital (Compass Group)

I feel that the Security team are now more recognisable, to staff, visitors, and patients within the Hospital as the blue does not conflict with other services uniforms. This will only assist these persons to be assisted in whatever is required from the Officers in a more efficient manner.



Testimonials

Darent Valley Hospital (Compass Group)

“When looking at hard shell PPSS stab vests they do, in my opinion, outperform the old Kevlar in areas such as stab resistance, weight, comfort and durability.

I did ask my team members to give some feedback, all agreed that it protects well against punches, absorbing most of force. As the shell is hard almost no impact is felt by the officer.

Comfortable even for prolonged periods of wear. Officers reported feeling less fatigued and restricted when comparing to old vests, which is especially beneficial during long shifts or in environments requiring constant movement (like long patrols etc.)

No incidents with direct stabbing or slashing (thankfully!) but looking at some tests done in controlled environment on the vests would appear that PPSS withstand those very well. Whole old Kevlar vests were optimized for ballistic protection in mind PPSS focused on direct stabbing and punching protection.

Also, all agreed vests are very light weight compared to Kevlar ones.”

Sodexo

“PPSS provide a bespoke service at a very competitive price, they were very engaging and listened to our needs, even designing the cover to include ‘Guard tour’ pipe pocket, body worn video bracket, extra zipped pockets for gloves and extra radio loops.”

University of Bristol

“The Security department have worked alongside PPSS to ensure our teams are equipped with body armour that is both attractive and suitable for all our Officers. PPSS have been great partners in helping to deliver the right products, on time and to the required standard.”

Enforcement Bailiffs Ltd

I would like to recommend PPSS Stab Resistant Vests to all County Court Bailiffs and High Court Enforcement Officers due to the exceptional levels of protection from edged weapons, hypodermic needles, but more importantly from blunt force trauma.

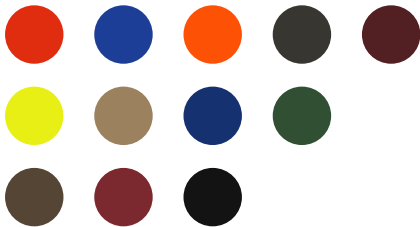
RONIN South Africa

We strongly recommend this product line in our academy and have no hesitation in recommending it to any professional in need of low profile, yet highly effective, covert body armor. We are available to any party for further clarification regarding our experiences of this product.



Bespoke Stab Vests Available

Customise your protection with our stab vests available in **various colours, two-tone designs** and **optional logo embroidery** to suit your style and branding needs.



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