

CARBON FIBRE

STAB RESISTANT BODY ARMOUR

CATALOGUE 2024



DESIGNED &
MANUFACTURED
IN GREAT BRITAIN



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**, and finally also **fully certified spike protection...** at an even **better 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

3.6mm thin Fortiptyl, our advanced carbon fibre composite

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)

1.7kg (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 GREAT BRITAIN

03



Covert White

#700130/WHT

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

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Materials

Protective Panel

3.6mm thin Fortiply, our advanced carbon fibre composite

Outer Cover

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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)

1.7kg (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 GREAT BRITAIN

04



Overt Black

#700131/BLK

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

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- Eviction Officers
- And any other profession where a covert security presence is deemed appropriate

Materials

Protective Panel

3.6mm thin Fortiptyl, our advanced carbon fibre composite

Outer Cover

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Fully adjustable hook & loop side and shoulder fastenings
 Hook & Loop patches front and rear for applying badges
 2 x Universal Radio Docks as standard

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)

1.7kg (based on size 'Large')

Care & Maintenance

Panel easily removed to allow for machine washing of outer cover

Colour

Black

Place of Manufacture

UK



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 MANUFACTURED
 IN GREAT BRITAIN

05



Overt Navy

#700131/NVY

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

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Features and Benefits

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- Protects all the vital organs
- Ergonomically cast for comfort and fit
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- Airport Security
- Stadiums Security
- Public Attraction Security Teams
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- And any other profession where a covert security presence is deemed appropriate

Materials

Protective Panel

3.6mm thin Fortiptyl, our advanced carbon fibre composite

Outer Cover

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 Hook & Loop patches front and rear for applying badges
 2 x Universal Radio Docks as standard

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)

1.7kg (based on size 'Large')

Care & Maintenance

Panel easily removed to allow for machine washing of outer cover

Colour

Navy Blue

Place of Manufacture

UK



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 IN GREAT BRITAIN

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

Who Is This Product Suitable For?

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- Corrections
- Borders Agencies
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- 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

Protective Panel

3.6mm thin Fortiptyl, our advanced carbon fibre composite

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
Hook & Loop patches front and rear for applying badges
2 x Universal Radio Docks as standard

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)

1.7kg (based on size 'Large')

Care & Maintenance

Panel easily removed to allow for machine washing of outer cover

Colour

Black

Place of Manufacture

UK



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MANUFACTURED
IN GREAT BRITAIN

07



Overt Navy 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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- 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

3.6mm thin Fortiptyl, our advanced carbon fibre composite

Outer Cover

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Fully adjustable hook & loop side and shoulder fastenings
Hook & Loop patches front and rear for applying badges
2 x Universal Radio Docks as standard

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)

1.7kg (based on size 'Large')

Care & Maintenance

Panel easily removed to allow for machine washing of outer cover

Colour

Navy Blue

Place of Manufacture

UK



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08



Overt Yellow with Reflective Tape

#700132/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
- 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

Who Is This Product Suitable For?

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- Healthcare Security
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- Local Government Enforcement
- Corrections
- Borders Agencies
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- 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

3.6mm thin FortiPLY, our advanced carbon fibre composite

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
Hook & Loop patches front and rear for applying badges
2 x Universal Radio Docks as standard

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)

1.7kg (based on size 'Large')

Care & Maintenance

Panel easily removed to allow for machine washing of outer cover

Colour

Yellow

Place of Manufacture

UK



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09



Testimonials



Advocate T.J. Smith (BA LLB)
CEO

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.



A.J Coates MABI FCEAA
CEO

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.



Simon Pears
Global Security Director

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.



Simon Ramsden
Security Operations Manager

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.



Jonas H Bertelsen
CEO

I believe I speak for all my employees, when I say that we have been very satisfied with the products and service delivered from PPSS Group.



Contact Us

PPSS Group

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