

SIOEN

BALLISTICS

Ballistic Protection Solutions







GREAT FORCES MERGED TOGETHER

At the beginning of 2017, the group Sioen acquired the important and strong Finnish producer of personal body armour protection, Verseidag Ballistic Protection Oy.

As a result, Sioen NV has integrated Verseidag Ballistic Protection Oy into its existing ballistic department Sioen Armour Technology (S.A.T.) and will continue these activities in one general business unit which is already on the market and acting under the new brand name 'Sioen Ballistics'.

Today, Sioen Ballistics is one strong partner in protective equipment, where experience meets latest innovations, whether in ballistic protective solutions, fabrics used or product design.

www.sioenballistics.com



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Sioen Ballistics as a reliable partner

Sioen Ballistics provides you with outstanding lightweight modular armour systems which protect the individual against all kinds of threats (handgun, submachine gun, assault rifle, shotgun, knife, ice pick,...).

Sioen Ballistics is a brand consisting of two well-known strong players on the ballistic market, Sioen Armour Technology (S.A.T.) and Sioen Ballistics Oy, previously known as Verseidag Ballistic Protection. Through this merge and foundation of Sioen Ballistics, the unit becomes a major supplier of products for personal body armour protection thanks

to the combination of the experience and the know-how from these two partners.

We operate in the broad field of ballistic and stab proof protective products with a focus on both (off-the-shelf) standardized solutions and custom made solutions to meet the most demanding requirements by the end user organisations.

Why choose Sioen Ballistics as your partner?

1. Part of the financially stable group Sioen Industries.
2. High level of warranty, liability and insurance.
3. High-quality and innovative products:
 - Use of raw materials from the most famous high-performance suppliers (DSM, DuPont, Teijin Aramid, Honeywell, Ten Cate,...) ;
 - In-house production with strong contingency capability (production plants worldwide) ;
 - In-house shooting labs utilised for quality control and development on armour solutions in both Belgium and in Finland ;
 - High experience: since 1964 active within P.P.E. (Personal Protective Equipment) and since 1984 in body armour. Cross-functional use of strengths of innovative products within different Sioen brand names.

Ballistic vests

Covert solutions

Covert vests are engineered to the thinnest and most flexible specifications whilst still providing the wearer with proven protection following official norms and standards. This allows the wearer to hide the fact that he or she wears a body armour.

Unnoticeable to observers, covert vests frequently make use of Outlast® or Coolmax® fabrics that provide a comfortable temperature over extended periods of use. They are ideal for officers assigned to close protection and/or undercover.

 11	 13	 15	 17	 19	 21
MYSTIC 1BN2COMK0	ULS FIT 1BVAC0PE0	POLLUX 1B59C0P01	FOLLUX 1B61C0P01	COMFORT XP 1BVBC0K00	CXP NORDIC 1BVCC0K00

Overt solutions

Intended to be worn over clothes. Overt vests utilise quality outer fabrics and an inner layer of 3D textiles like 3D Spacer fabric. In addition, accessories are easily available via external and internal pockets. Overt vests are most common among law enforcement officers, military and the security services industry.

 23	 25	 27	 29
HERACLES 1BV4C0PH0	HELIOS 1BG4F0ES3	STEWARD 1BV1F0MF1	ODIN 1BH7A2NM1
 31	 33	 35	
TRITON 1B91CONM1	MERCURI 1BL6C0PH1	SPIDER 1BP0COL10	

Tactical Solutions

Sioen Ballistics and Sioen Military have jointly designed a range of tactical vests designed for combat operations and focus on the ergonomic aspect of wear comfort. Our tactical vests use high-performance outer fabrics and 3D textiles inner layer fabrics. As there are many users and scenarios, the tactical gears are designed to meet the latest features in regards to modularity, easy configuration, quick donning and doffing, durability and most importantly safety. Depending on the style, they can be configured for a variety of load-bearing options and upgraded with additional groin, neck, shoulder, collar, throat, upper arm, leg, belt, pouches etc. For reaching the most optimal protection level / weight / price ratio, the insert plates are designed in combination with the soft ballistics. All this development is done in-house, to ensure that the products are fully optimized to the different end user needs.



ARES
012DF0ZD0



ATLAS
001DF0ZD0



CRIUS
1BL2C0PH1



WOTAN
1BO5F0ZD0



EXIMIUS
1BVDC0ZC0



TACTICUM VEST
1BVEC0Z00



**TACTICUM
PLATE CARRIER**
1BVFC0Z00



FLASH
1BVJC0Z00

Buoyancy Armour Solutions

Sioen has combined the expertise from Sioen Ballistics, Mullion and Ursuit to develop buoyancy armour solutions. Mullion and Ursuit are 2 branches which are specialised in maritime survival garments respectively with lifejackets, flotation suits and on the other hand dry suits for immersion and diving. Based on the technical complexity of this type of products, Sioen Ballistics develops and offers the right protection for the combination of ballistics and buoyancy in 1 equipment.



OCEANUS
1BO1C0ZD0



SEAGUARD
1BVHC0Z00



Politie
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POLITIE

Politie

MYSTIC

1BN2C0MK0

CONCEALABLE VEST

The MYSTIC is a concealable vest intended to be worn under the garments on a simple T-shirt or even on the skin. The use of specific fabrics offers maximum comfort and ease of use. It was designed to fit anatomically male and female body shapes. Thanks to a studied ballistic overlap, the Mystic gives you a 360° wrap around protection. The use of stretchable and breathable fabrics gives us a vest with maximum discretion while maintaining great comfort. An elastic belly belt allows a good fitting closer to the body and a good positioning too. A lower skirt fitting into the pants gives high stability and increases the discretion. Ideal product for VIP and undercover missions.

Exterior

- Fixed comfortable shoulders
- 2-way zip closure at 1 side

Interior

rior

- Heat and sweat management by Coolmax® fabric

Colour

- WS0 White





politie
police

politie
police

ULS FIT

1BVAC0PE0

COVERT VEST

The ULS FIT covert is designed to be worn covertly under a shirt or suit jacket assuring the wearer a minimal overall visible profile. This high-end concealable carrier has been developed to maximise comfort and cooling using knitted antibacterial Coolmax fresh materials. The cut of this vest is highly adapted to suit VIPs, undercover officers and civilians who need to be as covert as possible while wearing protective armour.

Exterior

- Fixed comfortable shoulders
- Adjustable side closures with touch and close fastening

Interior

- Heat and sweat management by Coolmax® fabric
- Elastic belly belt

Colour

- WS0 White
- NS0 Black





POLLUX

1B59C0P01

COVERT COMFORT VEST

The POLLUX covert carrier offers maximum comfort and it is designed to be discrete in every situation. It was developed for everyday use in concealed carry. It includes an advanced heat and sweat management system to regulate the body temperature. Knitwear with high elasticity at the shoulders enhances the level of comfort. Due to the flexibility of our product, you can have a great variety of protections within this type of carrier.

Exterior

- Adjustable shoulder closures with touch and close fastening
- Adjustable side closures with touch and close fastening

Interior

- Heat and sweat management by Outlast®
- Reinforcement fabric at inside (in contact with duty belt)

Colour

- NS0 Black
- WS0 White
- BS0 Blue
- ESK Skin colour





FOLLUX

1B61C0P01

COVERT COMFORT FEMALE VEST

The FOLLUX covert carrier offers maximum flexibility. It is anatomically adapted to fit the female shapes. The precupped solution includes a heat and sweat management system for regulating body temperature. It was developed for everyday use in concealed carry. Knitwear with high elasticity at the shoulders enhances the level of comfort. Due to the flexibility of our product, you can have a great variety of protections within this type of carrier.

Exterior

- Adjustable shoulder closures with touch and close fastening
- Adjustable side closures with touch and close fastening

Interior

- Heat and sweat management by Outlast®
- Reinforcement fabric at inside (in contact with duty belt)

Colour

- NS0 Black
- BS0 Blue
- WS0 White





climatic

COMFORT XP

1BVBC0K00

COVERT VEST

The COMFORT XP covert is designed for daily use either under or on top of a duty shirt. The front is fitted with an additional insert plate pocket for increased protection levels. The armour cut is designed for shooters and has adjustable shoulder straps to ensure a more comfortable and better fit. The outer cover materials are light and made from high abrasion resistance polyamide with PU coating. The lining is based on a knitted antibacterial Coolmax material with silver ions. The vest is used by police, military and security forces that require a higher level of protection while maintaining maximum comfort.

Exterior

- Adjustable shoulder closures with touch and close fastening
- Adjustable side closures with touch and close fastening
- External front plate pocket (dimension plates: width: 15 cm / height: 20 cm)

Interior

- Heat and sweat management by Coolmax® fabric
- Reinforcement fabric at inside
(in contact with duty belt)

Colour

- NS0 Black
- BS0 Blue
- AS0 Olive Green





CXP NORDIC

1BVCC0K00

COVERT VEST

The CXP NORDIC covert is designed for daily use either under or on top of a duty shirt. The model has shoulder adjustments at the back side, resulting in an as little as possible visibility of the vest in front. High emphasis has been taken for adjustability and comfort level. The front is fitted with an additional hard plate pocket for increased protection levels. The armour cut is designed for shooters and has adjustable shoulder straps to ensure a more comfortable and better fit. Multiple points of adjustment allow an easy put on and off. The vest is used by the police and security forces that require a higher level of protection while maintaining maximum comfort and little visibility.

Exterior

- Adjustable shoulder closures with touch and close fastening
- Adjustable side closures with touch and close fastening
- Internal front plate pocket (dimension plates: width: 15 cm / height: 20 cm)

Interior

- Comfortable elastic open fabric at the inside

Colour

- NS0 Black





SECURITY

K-9

HERACLES

1BV4C0PH0

OVERT VEST WITH UTILITY BELT

The HERACLES overt vest has been developed for an easy use. Designed with adjustable shoulder closures and providing enough storage facilities by means of Napoleon-zipped pockets. The vest is also equipped with an utility belt that allows extra pouch attachments to carry several accessories. In order to increase wearer comfort the vest is equipped with a heat and sweat management system. This system consists of a 3D spacer lining that effectively reduces body heat build-up by allowing consistent air circulation and providing a high perspiration transfer from the body. Additional features as comfort cushioning and shock absorbency lumbar support are also provided.

Exterior

- Zip closure
- Adjustable shoulder closures with touch and close fastening
- Adjustable side closures at the back with touch and close fastening
- Fixed belt with touch and close fastening to attach different pouches
- Cable guiding system in the front
- Loops on both shoulders
- Front and back velcro for logo
- 2 inset pockets with zip closure
- 2 loops for radio pocket
- Touch and close fastening for name badge
- Internal evacuation handle

Interior

- Heat and sweat management by 3D Spacer technology
- Elastic belly belt
- Reinforcement fabric at inside (in contact with duty belt)

Colour

- NS0 Black





HELIOS

1BG4F0ES3

HIGH-VIS RED OVERT

The HELIOS vest is the perfect combination (hi-vis) and personal protection thanks to a 360° wrap around protection, making it a perfect cover for paramedics and firefighters. It is easy to use and very flexible. Its design gives you a high carrying capacity especially thanks to a large Napoleon pocket. A day or nighttime mission ? The Helios overt will give you the security you are looking for : ballistic protection or protection against knife, spike or hypodermic needle are available as protective inserts.

Exterior

- Zip closure
- Adjustable shoulder closures with touch and close fastening
- Adjustable side closures at the back with touch and close fastening
- Loops on both shoulders
- Front and back velcro for logo

Interior

- Heat and sweat management by 3D Spacer technology
- Elastic belly belt
- Reinforcement fabric at inside (in contact with duty belt)

Colour

- FR1 Hi-Vis Red





STEWARD

1BV1F0MF1

WAISTCOAT WITH POUCHES FOR PROTECTION

The STEWARD overt vest is unique by combining high-visibility (High-vis) with a discrete personal protection. High-vis yellow outer fabric and retroreflective bands give its unique look and allow you to be seen at any time of the day and night. The side buttons make it easily adjustable so you can wear it over thick garments as a pull or even a jacket.

Exterior

- Zip closure
- Adjustable shoulder closures with touch and close fastening
- Adjustable side closures with touch and close fastening
- Loops on both shoulders
- 2 patched pockets
- 1 on shoulders + 2 on body

Interior

- Heat and sweat management by nylnet fabric

Colour

- FY1 Hi-Vis Yellow





ODIN

1BH7A2NM1

OVERT VEST WITH HARD PLATE POCKETS

The ODIN tactical vest has been created to guarantee the extra protection to the user by wearing hard plates in conjunction with soft armour. Designed for ease of use this system utilises adjustable shoulders, side closures and a specific internal design to keep the armour in place during rigorous movements. In order to increase wearer comfort the vest is equipped with a heat and sweat management system. It consists of a 3D spacer lining that reduces body heat build-up by allowing permanent air circulation and providing a high perspiration transfer away from the body. Optional shoulder protections can be attached if required.

Exterior

- Adjustable shoulder closures with touch and close fastening
- Adjustable side closures with touch and close fastening
- Front and back velcro for logo
- External front and back plate pocket
(dimension plates: width: 25 cm / height: 30 cm)

Interior

- Heat and sweat management by 3D Spacer technology
- Reinforcement fabric at inside
(in contact with duty belt)

Colour

- NS0 Black
- B95 Navy Blue





TRITON

1B91C0NM1

PLATE CARRIER

In dangerous situations the TRITON harness is the perfect solution to upgrade your traditional soft armour to higher levels of ballistic protection. This plate carrier has external hard armour plate pockets on the front and the back that give you the ability to reach the desired level of protection. The inner side of the carrier is made of anti-slip fabric so the carrier remains perfectly in place. A 3D spacer lining is also integrated to maximize the comfort. Different designs were used to ensure stability on the body while carrying hard plates for a daily use.

Exterior

- Adjustable shoulder closures with touch and close fastening
- Adjustable side closures with touch and close fastening
- Front and back velcro for logo
- Anti-slip lining at the bottom
- External front and back plate pocket (dimension plates: width: 25 cm / height: 30 cm)

Interior

- Heat and sweat management by 3D Spacer technology

Colour

- N15 Black





MERCURI

1BL6C0PH1

PLATE CARRIER WITH MOLLE (RIBON)

The MERCURY is a plate carrier that was designed in a compact way to offer maximum comfort and flexibility. This carrier gives you the possibility of wearing hard ballistic plates on the front and the back of the torso. MOLLE system over its entire surface allowing a not negligible payload capacity for such a small area. Very easy to put on, freedom of movement, easy to adjust thanks to Velcro closures on the shoulders and a buckle system on the sides. A 3D tunnel spacer lining gives the feeling of great comfort. The Mercuri is also equipped with Velcro areas to attach any type of identification badges, A dorsal extraction strap is also present on it. An internal fixing system of the hard plates will ensure a good positioning of the plates and this even during chases.

Exterior

- Adjustable shoulder closures with touch and close fastening
- Side closures with buckles
- MOLLE ribbon to attach different pouches
- Front velcro for logo
- External evacuation handle
- External front and back plate pocket
(dimension plates: width:
25 cm / height: 30 cm)

Interior

- Heat and sweat management by
3D spacer technology with
extra ventilation

Colour

- NS0 Black





SPIDER

1BP0C0L10

PLATE CARRIER WITH MOLLE (LASER CUT)

The SPIDER is a plate carrier that has been designed as simple as possible. Its very refined design allows it to be easily donned or removed, to have great freedom of movement, to be easy to adjust, ... This model of plate carrier gives you the possibility of wearing hard ballistic plates on front and back of the torso. Laser-cut MOLLE system over its entire surface allows an interesting payload capacity. Its seamless design reduces the risk of weak points.

Exterior

- Adjustable shoulder closures with touch and close fastening
- Side closures with buckles
- MOLLE Lasercut to attach different pouches
- Front and back velcro for logo
- External front and back plate pocket (dimension plates: width: 25 cm / height: 30 cm)

Interior

Colour

- NS0 Black





ARES

012DF0ZDO

SPARE COVER CONCEALABLE UNDERVEST

The ARES vest is an overt that gives you the possibility to associate soft and hard ballistic protections. The vest design has been specially developed to give the wearer great mobility, freedom of movement and a comfortable fit. The vest gives you a 360° wrap around soft ballistic protection that you can improve on the front and the back of the torso by adding hard ballistic plates in the pockets provided for this purpose. A 3D tunnel spacer improves the wearer's comfort by reducing the body heat build-up thanks to air movements within the vest. A belly belt allows a good positioning and stability while the vest is worn. 4 closure systems with Velcro's allow easy adjustment and put on.

Exterior

- Adjustable shoulder closures with touch and close fastening
- Adjustable side closures with touch and close fastening
- Durable touch and close fastener
- External front and back plate pocket
(dimension plates: width: 25 cm / height: 30 cm)

Interior

- Heat and sweat management by 3D spacer technology with extra ventilation
- Elastic belly belt

Colour

- E7I Coyotte IR
- NS0 Black





ATLAS

001DF0ZDO

LOAD BEARING VEST

The ATLAS is a modular load bearing vest that is battle proven. The platform is used for combat actions that require modularity, stability, great adjustability for personal fitting and a large capacity of load. The vest has a comfortable fit. In most cases the carrying platform is worn in combination with a protective vest. Hard ballistic plates (front, back and optional sides) can be inserted in the vest when used as standalone or in conjunction with soft ballistics. The ATLAS has a 360° MOLLE surface which allows maximum flexibility in body mapping. The vest is equipped with a double front closing system (2 quick release buckles and a quick release zipper) and anti-slip areas on the shoulders.

Exterior

- Zip closure with buckles
- Adjustable shoulder closures with touch and close fastening
- MOLLE ribbon to attach different pouches
- Cable guiding system on both shoulders
- MOLLE ribbon to attach different pouches
- 360° Molle
- External evacuation handle
- Anti-slip pads on the shoulders
- Front, back and side plates

Interior

- Heat and sweat management by nylnet fabric
- Strong external fabric

Colour

- E7I Coyotte IR
- NS0 Black









CRIUS

1BL2C0PH1

MODULAR TACTICAL VEST

The CRIUS is a modular lightweight tactical vest used during police or military missions, requiring stability, durability and mobility for the wearer. The vest gives you a 360° wrap around soft ballistic protection that you can enhance with hard protection thanks to front, back and sides pockets (optional). The CRIUS also has a MOLLE platform on its entire surface allowing an important payload capacity while maintaining great body mapping flexibility. Its unique design provides maximum comfort and freedom of movement. The vest is made of a resistant outer fabric, nonskid fabric on the shoulder, 3D inner lining. The CRIUS vest is quite modular thanks to the possibility of additional protection for neck, throat, shoulders, upper arms and groin.

Exterior

- Adjustable shoulder closures with touch and close fastening
- Adjustable side closures with touch and close fastening
- MOLLE ribbon to attach different pouches
- Front and back velcro for logo
- External evacuation handle
- External front and back plate pocket
(dimension plates: width:
25 cm / height: 30 cm)

Interior

- Heat and sweat management by
3D Spacer technology

Colour

- NS0 Black
- K32 Libyan Digicam





WOTAN

1B05F0ZD0

MODULAR TACTICAL VEST

The WOTAN is a modular intervention vest specially developed to meet the specific requirements of special Police units. This platform offers you a 360° ballistic protection that can be adjusted to the threats that the police officer might face. It is possible to increase the protective surface with the following removable panels : the neck, the throat, the upper arms, the belt, the groin, the coccyx and the upper thighs. Depending on the danger, it is possible to fix the neck protection on the vest in 3 different ways. The belt also incorporates ballistic protective panels to optimize the total protected area. Being covered with 360° MOLLE laser cut system (as on the belt and the thigh protective panels), the WOTAN has a very important carrying capacity with an easy body mapping. Front and back hard plates can be inserted into pockets provided for this purpose. For side plates, specific pockets can be attached to the tactical vest using the MOLLE system on the sides. A reinforced pull handle on the upper back of the vest completes its design.

Exterior

- Adjustable shoulder closures with touch and close fastening
- Adjustable shoulder closures with touch and close fastening
- Adjustable for right positioning on shoulders and sides
- MOLLE Lasercut to attach different pouches
- Front and back velcro for logo
- 360° Molle
- External evacuation handle
- External front and back plate pocket (dimension plates: width: 25 cm / height: 30 cm)

Interior

- Heat and sweat management by 3D spacer technology with extra ventilation
- Elastic belly belt

Colour

- NS0 Black





EXIMIUS

1BVDC0ZCO

TACTICAL VEST

The EXIMIUS is a modular intervention vest specifically designed for police and high risk SWAT teams. Incorporating removable collar, groin, shoulders and upper arms protection, It allows the wearer to adjust the protection to suit any mission. Made of a high abrasion resistant and flame retardant Cordura. A heavy-duty load bearing webbing system provides a quick 360° attachment of MOLLE compatible pouches and accessories. This model incorporates removable side hard plate insert pockets and front and back plate pockets too. The patented biceps system maximises the protection for upper arms. A reinforced drag handle in the back completes this modular design.

Exterior

- Adjustable shoulder closures with touch and close fastening
- Adjustable side closures with touch and close fastening
- MOLLE ribbon to attach different pouches
- Cable guiding system in the front
- MOLLE ribbon to attach different pouches
- Front and back velcro for logo
- Durable touch and close fastener
- 360° Molle
- External evacuation handle
- Front, back and side plates

Interior

- Heat and sweat management by 3D Spacer technology
- Elastic belly belt
- Strong external fabric

Colour

- NS0 Black
- AS0 Olive Green









TACTICUM VEST

1BVEC0Z00

TACTICAL VEST

The TACTICUM VEST is an upper body protective vest which can be equipped with any additional protective modules, depending on the needs. The different modules of protection are throat, neck, shoulders, upper arms, battle belt, groin and upper legs. Particularly dedicated to full body protection for more static mission while assuring great ergonomics and comfort. Latest materials for better sweat management and air ventilation. GT Cobra buckles on shoulders for easy doffing. 360° PALS/MOLLE areas allowing an import load with an easy body mapping. Battle belt helps the user with a more important balanced load / weight distribution. Ballistic protection levels for all vital parts and scalable according to the mission. These protection levels can be increased by means of insert plates. The driving concept for the modular Tacticum vest has been the combination of optimal ballistic protection, wear comfort and weight management.

Exterior

- Adjustable shoulder closures with touch and close fastening
- Adjustable side closures with touch and close fastening
- MOLLE ribbon to attach different pouches
- Front and back velcro for logo
- Durable touch and close fastener
- 360° Molle
- External evacuation handle
- Removable anti-slip pads on shoulders
- Front, back and side plates

Interior

- Heat and sweat management by 3D Spacer technology
- Elastic belly belt
- Strong external fabric

Colour

- NS0 Black
- AS0 Olive Green



Tacticum protective modules



NECK AND SHOULDERS SOFT BALLISTIC PROTECTIONS

5BVFC0Z00

This removable ballistic panel allows you to increase your protective surface at the neck and the shoulders. They have been especially designed to be compatible with the Tacticum range of carriers.



THROAT SOFT BALLISTIC PROTECTIONS

6BVFC0Z00

This removable ballistic panel allows you to increase your protective surface at the throat. The throat protection is designed to be used together with the collar (neck & shoulder) protection.



GROIN SOFT BALLISTIC PROTECTION

7BVFC0Z00

This removable ballistic panel allows you to increase your protective surface at the groin. They have been especially designed to be compatible with the Tacticum range of carriers.



BATTLE BELT SOFT BALLISTIC PROTECTION

1BVLC0Z00

This battle belt increases the ballistic protection surface at the belt area. Its specific design (shape and 3D spacer) allows a better distribution of the load and therefore relieves the soldier. It also has been especially designed to be compatible with the TACTICUM range of carriers.



PROTECTION FOR LEGS

1BVGC0Z00

The CRURA protective accessories are dedicated to protect the lower part of the legs against different threats. This level of protection is scalable depending on the need of the end user. Its design, simple but effective, allows a quick donning and doffing when needed. The use of strong materials (fabrics, elastic band, 3D spacer, velcro's) provides it with the necessary resistance for that kind of product. An ideal product to enhance the protection surface for users and for securing ballistic lower area safety when using shields in operations.



UPPER ARMS SOFT BALLISTIC PROTECTIONS

4BVFC0Z00

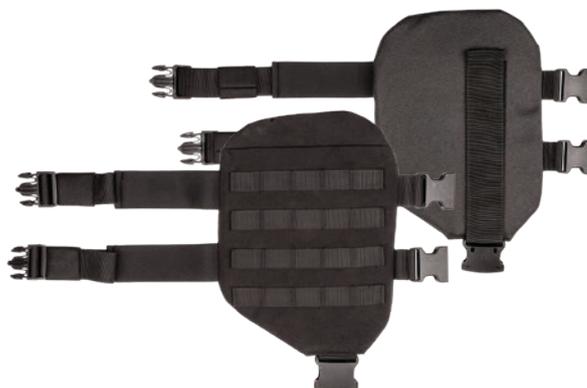
These removable ballistic panels allow you to increase your protective surface at the upper arms (biceps). They have been especially designed to be compatible with the Tacticum range of carriers.



UPPER LEG SOFT BALLISTIC PROTECTION

8BVFC0Z00

These removable ballistic panels allow you to increase your protective surface at the upper legs. They have been especially designed to be compatible with the Tacticum range of carriers.





TACTICUM PLATE CARRIER

1BVFC0Z00

TACTICAL PLATE CARRIER

The TACTICUM PLATE CARRIER is an upper body plate carrier which can be equipped with any additional protective modules, depending on the needs. Hard plate carrier as a base on which we can add the following modules of protection : throat, neck, shoulders, upper arms, battle belt, groin and upper legs. Specially designed for full body protection for dynamic missions while assuring great ergonomics and comfort. Latest materials for better sweat management and air ventilation. 360° PALS/MOLLE areas allowing an import load with an easy body mapping. A battle belt helps the user with a more important balanced load / weight distribution. Ballistic protection levels for all vital parts and scalable according to the mission. As for the vest version, the driving concept for the modular Tacticum plate carrier has been the combination of optimal ballistic protection, wear comfort and weight management.

Exterior

- Adjustable shoulder closures with touch and close fastening
- Adjustable side closures with touch and close fastening
- MOLLE ribbon to attach different pouches
- Cable guiding system in the front
- Front and back velcro for logo
- Durable touch and close fastener
- 360° Molle
- External evacuation handle
- External front and back plate pocket
(dimension plates:
width: 25 cm / height: 30 cm)

Interior

- Heat and sweat management by 3D Spacer technology
- Strong external fabric

Colour

- NS0 Black
- AS0 Olive Green
- E7I Coyotte IR





FLASH

1BVJC0Z00

QUICK RELEASE SYSTEM PLATE CARRIER

The FLASH plate carrier is specially designed to offer maximum comfort and flexibility. The plate carrier gives you the possibility of wearing when needed some hard ballistic protections on front, back and sides too. 360° PALS/MOLLE system over its entire surface. Very easy to put on, freedom of movement, very comfortable, easy to adjust thanks to Velcro's systems on the shoulders and an elastic ribbon-based system on the sides. The carrier is equipped with a true 4 points QRS (Quick Release System), a 3D spacer lining enhances the comfort, a dorsal extraction strap is also present. An internal fixing system of the hard plates will ensure a good positioning of the plates and this even during chase. Field tested by several European Polices.

Exterior

- Adjustable shoulder closures with touch and close fastening
- Adjustable side closures with touch and close fastening
- MOLLE ribbon to attach different pouches
- Cable guiding system in the front
- Front and back velcro for logo
- Durable touch and close fastener
- 360° Molle
- External evacuation handle
- External front and back plate pocket
(dimension plates: width:
25 cm / height: 30 cm)

Interior

- Heat and sweat management by
3D Spacer technology
- Strong external fabric

Colour

- NS0 Black
- AS0 Olive Green
- E7I Coyotte IR



PRODUCT CUSTOMISATION

A large share of our business is around tailor-made, customer specific and unique for one customer products. Our product customisation process follows our product development process where the customer requirements and wishes are thoroughly analysed; based on the inputs we develop the optimal ballistic solution and carrier design and fine-tune them together to form the overall solution. The solutions are tested internally and certified by an external partner. Whenever possible, our customers are also invited to take part in the development. The results are world class protective solutions, which are protecting lives and enabling the secure and efficient operations every day and all over the world; the “Life Saving Design”.

BUOYANCY ARMOUR SOLUTIONS

Sioen has combined the expertise from Sioen Ballistics, Mullion and Ursuit to develop buoyancy armour solutions. Mullion and Ursuit are 2 brands which are specialised in maritime survival garments respectively with lifejackets, floatation suits and on the other hand dry suits for immersion and diving. Based on the technical complexity of this type of products, Sioen Ballistics develops and offers the optimum protection for combining ballistics and buoyancy into 1 product.



**Maritime Safety
Suits & Lifejackets**
www.mullion-pfd.com



Professional drysuits
www.ursuit.com



OCEANUS

1B01C0ZD0

TACTICAL VEST WITH REMOVABLE LIFEJACKET

The OCEANUS is a lightweight tactical vest specially designed to be used optimally in the river and even maritime environment. Specific points of fixation have been developed to give the possibility of optimally fixing a removable lifejacket on this plate carrier. A slim fit laser cut design associated with some key features such as a quick donning and doffing bucles system, detachable heat and sweat patches, specific adjustment for climbing or anti-slip evacuation handle make Oceanus an ideal product for all ship missions. High modularity body mapping and detachable front and back panels give you the possibility to be ready whatever the kind of mission.

Exterior

- Adjustable shoulder closures with touch and close fastening
- Side closures with buckles
- MOLLE ribbon to attach different pouches
- Front and back velcro for logo
- Durable touch and close fastener
- 360° Molle
- External evacuation handle
- External front and back plate pocket
(dimension plates: width: 25 cm / height: 30 cm)

Interior

- Heat and sweat management by 3D Spacer technology
- Strong external fabric

Colour

- NS0 Black



SEAGUARD

1BVHC0Z00

BUOYANCY TACTICAL VEST

The SEAGUARD vest provides a unique solution to officers assigned to routine waterborne operations. The front and back internal panels provide flotation. This special construction does not lose buoyancy if hit by bullets or fragments. The design incorporates a removable buoyant collar which increases buoyancy and ensures that the head always remains in the correct angle and face up. Reflective strips are attached on both shoulders and a fitted signal lamp turns on automatically in water. All ballistic panels are water tight and sealed by welding.

Exterior

- Adjustable shoulder closures with touch and close fastening
- Side closures with buckles
- MOLLE ribbon to attach different pouches
- Front velcro for logo
- External evacuation handle
- External front and back plate pocket
(dimension plates: width: 25 cm / height: 30 cm)

Interior

- Heat and sweat management by nylnet fabric

Colour

- NS0 Black
- BS0 Blue
- K01 Camouflage



DO NOT WORK UNDERNEATH THIS LIFT
UNLESS IT IS MECHANICALLY LOCKED

Oxley
MADE IN
UNITED KINGDOM

Research & development

Sioen Ballistics is constantly engaged in R&D and the development of unique and innovative solutions to meet the demands of our customers worldwide. We do this by utilizing and combining the expertise of our Engineering department (Sioen in Belgium and former Verseydag Ballistic Protection in Finland) with its broad range of ballistic and stab possibilities, textile testing,...

Strong and innovative R&D

Sioen Ballistics can rely on its highly capable and strong innovative R&D department from the Sioen Apparel division. 'Protection through innovation' is the motto of Sioen. The ongoing research on new materials and technics is resulting in new innovative ideas which will be implemented into the products from Sioen Ballistics:

- Different parameters such as weight, flexibility and thickness are always a focus to improve our armour solutions ;
- A higher comfort and improved heat and sweat management are the objectives on our textile carriers ;
- The compatibility of the armour solution within the textile carrier will be tested to define the level of comfort of the final product. Sioen Ballistics is equipped with a standardized test circuit to make an objective evaluation by the wearer or the end user.

A big strength from SIOEN is the cross functional R&D: new innovation ideas from other market segments (maritime, military, first responders, protective work wear,...) are taken into account to use as new ideas within the Sioen Ballistics products.

Armour solutions

Sioen Ballistics offers a wide standardized range of soft and hard armour inserts.

Bulletproof, stab proof and combined protective inserts are available which follow all known ballistic standards. Our hard armour plates are available in conjunction with a Sioen Ballistics soft armour solution or as a stand alone plate.



In house ballistic development

Sioen Ballistics works with all major ballistic suppliers such as DSM, DuPont, Teijin Aramid, Ten Cate, Honeywell,... and with the most well-known insert plate manufacturers. In addition to procuring ballistic materials, Sioen Ballistics also develops in house a range of ballistic and anti-stab materials at its own weaving mills.

New armour solutions are developed in our own in-house shooting labs following all international standards. These test facilities are used for the development of customized ballistic solutions and for conducting regular quality control. The tested threats can range from smallest fragments up to highest rifle calibers. This possibility in conjunction with the broadest stab and slash testing facilities ensures that the result is a world class protective solution.



Ballistic test

Our ballistic laboratories gives us the opportunity to develop ballistic solutions in accordance with various international standards.



Stab test

For this kind of test, a pointed object (knife or spike in general) is falling down from a certain height to obtain the desired energy at the impact.

Product Certifications and official product test reports

The armour solutions developed by Sioen Ballistics are complying with the protective requirements defined by the end user. These requirements are often based on international standards which are issued by standard organisations such as the National Institute of Justice (NIJ), Home Office Scientific Development Branch (HOSDB), Vereinigung der Prüfstellen

für angriffshemmende Materialien und Konstruktionen (VPAM), Military Agency for Standardization (MAS),...

In order to prove the product conformity of the armour solutions, Sioen Ballistics tests the product at notified bodies that are accredited to issue certificates and official test reports.

In this way we always get a third party accreditation assuring that our protective insert performs to the protection level mentioned on the label.

CE Certificate

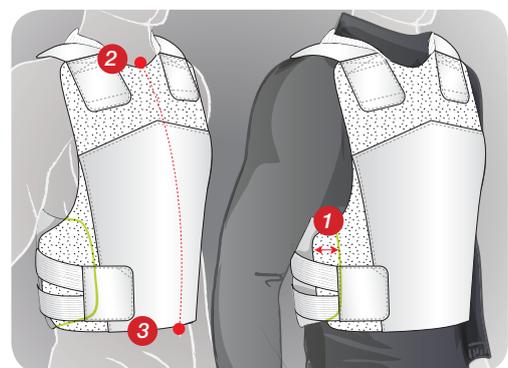
Body armour used by civilians must comply with European Council Directive 89/686/EEC on Personal Protective Equipment (PPE) and must be CE approved. Sioen Ballistics manufactures a range of CE-approved armour suitable for use by security officers and civilians.

The CE marking is a mandatory European marking for certain product groups to indicate conformity with the essential health and safety requirements set out in European Directives.

Interchangeable Sioen Ballistics bodyarmours

Every Sioen Ballistics body armour vest can be combined with various protective inserts. These inserts are interchangeable, so you can use it with all Sioen Ballistics body armour vest.

To ensure optimal protection you need to have at least 2,5 cm overlap at both sides (1). At the front side the armour needs to cover your body from your clavicular notch (2) to the belly button (3).





SECURITY

Soft armour solutions

Sioen Ballistics develops and produces their own armour solutions. With thousands of test reports and certifications we are most probably able to solve the request from high demanding customers either directly or through a further development of an existing solution.

‘Protection through Innovation’ is the motto from the Sioen group and therefore Sioen Ballistics will always be 100% equipped with all soft armour solutions. All related norms and standards are mastered (NIJ – HOSDB/CAST – VPAM – Technische Richtlinie,...) and in addition many of our customers specific own standards too.

Ballistic/knife/spike/needle protections

Due to the recent terrorist attacks, more and more endusers are focused on multi-threat protection against bullets, knives, spikes, fragments,...

For this reason, Sioen Ballistics is highly interested into your own risk assessment in order to respond as best to your requirements.

Fragment Simulating Projectile solutions

For military or mine clearance protection, Sioen Ballistics offers also solutions which are in line with the STANAG-standard or the required specifications from different MOD's. As many of these solutions are developed according to specific end user requirements, we can indicate these armour solutions as 'customer made'.

In case you are requiring additional information, you can contact directly Sioen Ballistics. Different armour solutions in line with ballistic protection levels can additionally offer protection against fragments. As proof, Sioen Ballistics possesses test reports from notified bodies showing the V50-results against specific fragments.





Hard armour solutions

We offer and manufacture a wide range of additional protective products ranging from insert plates to ballistic shields, helmets, visors and safety devices. These products are available in a range of protective abilities as required by the end-user and are fully certified to meet the international standards.

Hard plates

We offer a wide range of ballistic insert plates to cover the most common protective standards and requirements. These plates are available in a variety of ergonomic shapes and sizes and material finishes.

Our offering consists of hundreds of options and we are ready to answer your request. We summarize herewith the most common required projectiles which need to be stopped by our hard armour solutions:

Threats (*)

- 5,45x18 PSM FMJ MSC (7N7)
- 7,62x25 Tokarev FMJ MSC
- 9x19mm FMJ (Vanäsverken m39/B)
- .357 Magnum FMJ TC (Geco #3123146)
- 7,62x51 (7,62mm NATO) FMJ (M80)
- 30-06 Springfield (7,62x63) AP (M2)
- 7,62x39 FMJ MSC (PS) ("AK47 MSC")
- 5,45x39 FMJ MSC (7N6)
- 5,56x45 (5,56mm NATO) FMJ (SS109)
- 7,62x39 API (BZ)
- 7,62x51 (7,62mm NATO) AP (P-80)
- 7,62x54 R B32 API
- 5,56x45 (5,56mm NATO) SP (Fed. Tact. Bonded)
- 7,62x51 (7,62mm NATO) FMJ (L2A2)



() FMJ: Full Metal Jacket, MSC: Mild Steel Core, TC: Truncated Cone, AP: Armor Piercing, API: Armor Piercing Incendiary, SP: Soft Point*

Helmets, shields and accessories

We offer a range of helmets, which complete the protective solutions for the different end-users.

PASGT HELMET

The PASGT style Helmet is designed as a general duties helmet suitable for military and police use. This lightweight helmet is manufactured using a para-aramid material which provides excellent protection against ballistic and fragmentation threats.

The harness system provides a balanced and comfortable fit allowing adjustments to fit individual needs. A four point harness is attached to the shell of the helmet with ballistic resistant bolts and it can be easily removed for cleaning or replacement.

STANDARD MODELS

- Colours: Black, Olive, UN Blue, White
- Protection: NIJ 0106.01 II + .44Mag SWC-GC
- MIL-STD-662F 1,1g FSP V50>650m/sec

Size	Head Circle (cm)	Weight (~kg)
S	52-56	1,4
M	54-59	1,4
L	57-64	1,4
XL	61-66	1,5





SPEC OPS HELMET

The Spec Ops Delta is a special operator helmet, manufactured using advanced Aramid composites. This lightweight robust helmet provides protection against ballistic and fragmentation projectiles. Helmet is equipped with a 4 point adjustable harness and Epic Air impact absorption system of Team Wendy. The harness has a split suede chin strap along with X Style suede neck pad.

The helmet is fitted with an universal night vision goggle mount and Picatinny rails that provide a solid platform for flashlights, cameras and other gear.

STANDARD MODELS

- Colours: Black, Olive Brab, Navy Blue,
- (Multicam and IR painting on request)
- Protection: NIJ 0106.01 II + .44 Mag SWC-GC, STANAG 2920 (17g FSP) and MIL-STD-662F V50>650 m/s



Size	Head Circle (cm)	Weight (~kg)
S	52-56	1,3
M	54-59	1,3
L	57-64	1,4
XL	61-66	1,5



LIGHT WEIGHT SOFT SHIELD

Our high end light weight soft shield is designed for confined space use in an airplane, train, metro or narrow corridors and is designed to give maximum protection up to sub machine gun threats and fragments.

The material selection has allowed a higher performance with a lower weight. Weight, supporting legs and stand option and the additional new feature, fastening hook straps, makes the shield perfect for entrance and securing operations. The shield is available in versions for NIJ 0108.01 level IIIA or according to Portable Ballistic Protection for UK Police⁽²⁰¹¹⁾: PB1-40/SG100: 9 x19mm bullet stopped ≥ 40 mm from edge, 12/70 slug stopped ≥ 100 mm from edge. This shield also withstands .357 Magnum and .44 Magnum. The shield can be equipped with insert plates (one or two) for protection up to NIJ 0108.01 level IV. The shield is equipped with trauma protection at the handle locations.

The size of the shield is 130 cm x 60 cm, or the folding option 65 cm x 60 cm for an easy transport in the car. The weight of the soft shield is ~6,0 kg NIJ0108.01 IIIA version / ~5,3 kg PB1 version.





RIGID SHIELD WITH WINDOW

The Rigid Shield is designed to give maximum protection up to NIJ 0108.01 level III+AK47MSC threats while affording the user a better degree of visibility by utilizing a 10 cm x 20 cm ballistic glass viewing point.

The handle system is designed for ambidextrous use and the shield is finished with a flame retardant petrol shedding and high abrasion resistant coating with moulded rubber edge protection. The size of the shield is 120 cm x 60 cm and the weight is ~22 kg.

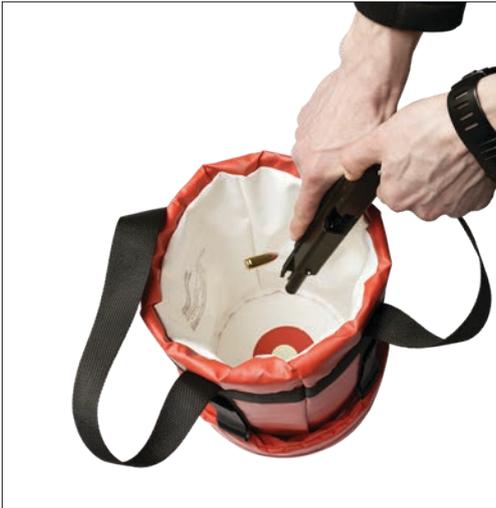






ACCESSORIES

Sioen Ballistics can provide different ballistic accessories in order to fulfill the complete ballistic requirements from the end user
E.g.: carrying bags, ballistic blankets, hard plate suitcases, safe handling of weapons products, bullet catching products, ballistic attaché bags, pouches,...



BALLISTIC BAG

The Ballistic Bag is designed for safe unloading after the weapon has been recovered or used. It consists of a main body and a bottom which stops and catches the bullets without ricochet.

The bottom and the body units are connected by Velcro® straps. A self-illuminated aiming point is incorporated in the inside bottom of this bag. This Ballistic Bag is lightweight (~4,2 kg) and easy to transport utilising two handles. Stopping ability has been tested against 9 x19mm, 357 Magnum and 12/70 Slug.



SAFETY STATIONS

The Safety Station is designed for safe unloading after the weapon has been recovered or used. It has been designed to be used in a stationary position or locked into the floor of a vehicle with a base plate.

There are two versions available: 50cm height ~13kg and a compact version 20cm height ~8kg. The design stands for calibers up to .50 Cal. The bullet catching granules can be replaced quickly and easily after the maximum use.



POUCHES

If you have a project and request different pouches, Sioen Ballistics will evaluate the feasibility of it and will work customer oriented. Sioen Ballistics has the capability to either make the pouches in-house or together with partners who are specialised in pouches.



TORSKIN[®]
PROTECTIVE SKIN

**TORSKIN,
YOUR PROTECTIVE
SECOND SKIN**

Torskin is a brand new collection of innovative slash, cut and stab resistant shirts and polos.

We develop products of the highest quality with a strong focus on comfort and weight reduction. Torskin feels like a second skin, offering optimal protection. With the development of our Torskin range, we can now offer our customers complete and full protection.



www.torskin.com



Vertical integration

Undertaking the complete production phases in-house, from yarn to finished product, offers a competitive advantage to our customers: from the control of the full production chain to the quick response to customer's needs with competitive prices.





Spinning

Sioen has one of the most modern spinning mills in the world with an output of approximately 16 000 tons of polyester high-tenacity yarns (up to 6 600 dTex and more).

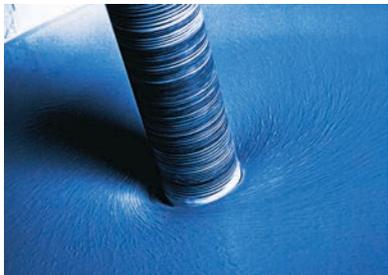
The yarn will be used for weaving our high technical textiles which can be afterwards used into our specialised garments.



Weaving

Sioen specialises in the production of high quality technical industrial fabrics. All our production plants are equipped with their own beaming, weaving, sensing, slitting and inspection equipment.

The para-aramid yarn used for bulletproof textiles can be woven into our weaving facilities.



Chemicals

Sioen possesses its own chemical division. This allows to provide a fast, flexible, service-oriented and tailor-made products, such as pigments pastes, vanishes and inks.



Coating

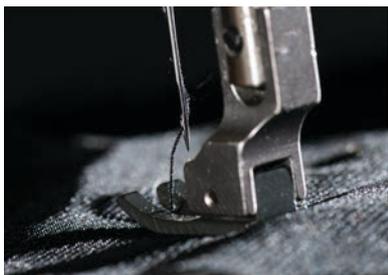
Sioen is the only coater in the world who masters 5 different coating techniques at industrial level. This allows to satisfy a multitude of applications & markets.

We combine our internal coated textiles with other available high technical textiles to satisfy the most complex customer requirements.



Services and solutions

Coatex and Saint Frères Confection are the final step in the vertical integration within the Coating Division. We deliver total solutions for specific applications. We have a large spectrum of production techniques such as cutting (laser, knife), welding (HF, Hot Air, Hot Wedge), sewing, assembling, spray-printing, laminating and many others. We transform technical fabrics into finished and semi-finished solutions for a wide range of applications.



Apparel

Production of technical garments for all working conditions.

Examples are: firefighters clothing, chainsaw protection, floatation suits, bullet-proof vests, protection against electrical flashovers, high-visibility wear and cold storage clothing,...

Quality Management Certifications



SIOEN's quality Management System has been certified to ISO 9001 since 2000. The latest certification is provided by BQA (Belgian Quality Association) under certificate number DS/AJ/CER/14-04-2008/111. Using ISO 9001:2015 helps ensure that customers get consistent, good quality products and services, which in turn brings many business benefits. Sioen Ballistics also has the certified capability to operate according to AQAP-2110, ed. 3.

Environmental Management

Since 2011 SIOEN NV has also reached the ISO 14001 certificate for Environmental Management. Sioen Ballistics takes quality assurance of its products very seriously and each part of the design and manufacturing process is fully documented.

Liability and insurance

Sioen Ballistics provides substantial product liability for bodily injury, property damage and consequently financial loss combined. Sioen Ballistics can rely on good references from supplied products in the past and emphasises its engagement to its product quality from the time of sales up to the end of warranty of the product.



© 2017 SIOEN - Test facility to determine the wearer's comfort during exercises.



UN Global Compact

The UN Global Compact is a strategic policy initiative for businesses that are committed to aligning their operations and strategies with ten universally accepted principles in the areas of human rights, labour, environment and anti-corruption.



Fully REACH conformant

REACH is the European Community Regulation on chemicals and their safe use. It deals with the Registration, Evaluation, Authorisation and Restriction of Chemical substances. Reach aims to enhance the human health and environment through a better and faster identification of the intrinsic properties of chemical substances.



Sustainable Textile Production

Sustainable Textile Production (STeP) is the new OEKO-TEX® certification system for brands, retail companies and manufacturers from the textile chain who want to communicate their achievements regarding sustainable production to the public in a transparent, credible and clear manner. As market leader, we want more than high quality products. We also want our production processes to be sustainable.

We are the first PPE manufacturing company to receive a STeP certification. The audit revealed that Sioen Apparel complies with the highest requirements of STeP by the OEKO-TEX® standard level 3 in regard to our structures, processes and management systems.

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Sioen Ballistics Belgium

Fabriekstraat 23
B-8850 Ardoie
Belgium
Tel. +32 (0)51 740 800
info@sioenballistics.com
www.sioenarmour.com

Get social:**Sioen Ballistics Oy. Finland**

Ensimmäinen savu
FI-01510 Vantaa
Finland
Tel: +358 (0)9 8255 01
info@ballisticprotection.fi
www.ballisticprotection.fi

