



SEMPER INVICTA

ANTI-AGGRESSION EQUIPMENT

DISCREET ANTI-KNIFE
AND BULLETPROOF PROTECTIVE EQUIPMENT



MADE IN
FRANCE



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PREFACE

In 2021, Charles Yvon, CEO of La Manufacture de Parapluies de Cherbourg, created a new entity specialized in anti-knife and bulletproof protective equipment. Semper Invicta was born, riding the wave of success of the ParaPactum.

Created in 2010, this unique umbrella is a real protection tool. The ParaPactum is versatile, whether it is used to protect against stabbing, thrown objects, to ward off crowds or to conceal the image of VIPs. Its versatility has seen it used for over 10 years by the GSPR (Security Group of the French Presidency) and other public and private protection units.

In 2023, after 3 years of R&D, a new version sees the light of day: Semper Invicta innovates by developing the world's first bulletproof umbrella. This version offers protection against 9mm pistols and machine-guns. A unique tool destined to become a must-have for close protection.

Semper Invicta has replicated the R&D process used for the ParaPactum: starting from existing know-how and adapting it to develop products useful to the security-defense sector. This methodology has led to the development of a complete range of protective equipment, which we invite you to discover.

All the companies Semper Invicta works with are carefully selected to develop high-quality, innovative and durable products. These dynamic companies, whose production is located in France, maintain long-term relationships with Semper Invicta, with an emphasis on innovation.





SEMPER INVICTA

ANTI-AGGRESSION EQUIPMENT



Semper Invicta has surrounded itself with several experts:



- Tricots Saint James for their century-old expertise in flat knitting, and the elegance and quality of their knits and fabrics.



- La Manufacture de Parapluies de Cherbourg for their unrivalled expertise in manufacturing our flagship product, the ParaPactum.

These co-developments with French companies ensure the quality and durability of our products.

PROTECTION AND DISCRETION

The design and conception of our products ensure the safety and protection of those who wear them, while guaranteeing absolute discretion.

CONTINUOUS INNOVATION

The result of assiduous R&D, our products are designed in line with the realities on the ground.

EFFICIENCY AND CUSTOMER SATISFACTION

Our aim is to offer products that meet our customers' needs, and we listen to them as much as necessary. We seek to provide the best protection with the utmost discretion. That is why we have designed our products around the perfect combination of «technicality, know-how and elegance». Our products are based on everyday classics, while offering additional protection for the user.

ABOUT US

Semper Invicta promotes quality, know-how and «Made in France» for the benefit of personal protection.

If Semper Invicta has one ambition, it is to innovate in the field of protection. We have imagined and designed innovative anti-knife and bulletproof protection that are brand new on the security market: discreet, comfortable and resistant. Resulting from a meticulous and innovative R&D, Semper Invicta products are designed to meet the realities on the ground.

DISCREET AND HIGH-PERFORMANCE CLOTHING

Our teams have spent three years developing a complete range of discreet protective equipment to support you in your day-to-day work.

FRENCH KNOW-HOW AND MANUFACTURING EXCELLENCE

Our products are designed and manufactured in France, in some cases by companies that have been awarded the EPV (Living Heritage Company) state label, a guarantee of quality and protection.

Semper Invicta co-develops security products with companies renowned for their expertise.



PARAPACTUM® RANGE



Created in 2010, the ParaPactum® is a multi-functional accessory that stands up to any test. Manufactured thanks to the know how of La Manufacture de Parapluies de Cherbourg, it is a unique protective tool.

Who is the ParaPactum® range designed for ?

- Close protection units
- Private security
- Law enforcement
- Public figures
- Civilians





Individual ParaPactum®

The ParaPactum® in an individual version, dedicated to the protection of civilians and professionals.

THE COMPACT VERSION

With its lighter and more compact structure, this anti-slash umbrella combines discretion and protection. It is ideal for security teams working in pairs or individually. Thanks to its maneuverability and its waterproof function, it is also perfectly suited for private individuals.

ISO 13 997



Technical data

- **Slash resistant protection:** Level F (ISO 13997)
- **Materials:** galvanised steel, aramid, Jura hornbeam
- **Resistance:** 140km/h headwind
- **Weight:** 900 g – 1,9 lb
- **Height:** 94 cm – 37 in
- **Diameter:** 115 cm – 45 in
- **Made in France** ■ ■

Highlights

- Multifunctional protection umbrella
- Slash resistance
- Protection against thrown objects
- Image protection
- Discreet evacuation

Customisation: colors - embroidery – numbering

ParaPactum®

Entirely handcrafted in France, this shield withstands a pressure of 100 kg (220 lbs) and a headwind of 200 km/h (124 miles/h). Thanks to its easy opening and manoeuvrability, the ParaPactum® deploys instantly, offering a wide field of protection.

THE DISCREET PROTECTION DEVICE FOR EMINENT PEOPLE

Its 8-panel canopy is water-repellent on the outside to retain its original function as an umbrella. Overlocked seams and a triple peripheral hem prevent any risk of tearing. These innovations make the ParaPactum® a discreet, hard-wearing tool, ideal for VIP protection.

USES

- Crowd control
- Slash resistance
- Protection against thrown objects
- Fast and discreet evacuation
- Image protection
- Glass breaking

APPROVED BY THE GSPR

Operationally tested, selected and adopted since over 10 years by the GSPR (Security Group of the French Presidency), the ParaPactum® has no equivalent anywhere in the world.

Technical data

- **Materials:** carbon, titan, aramid
- **Weight:** 2, 225 kg – 5 lbs
- **Height:** 100 cm – 39 in
- **Diameter:** 130 cm – 50 in
- **Made in France** ■ ■

Highlights

- Easy opening
- Wide wingspan for multidirectional protection
- Elegant silhouette for optimum discretion
- Multi-purpose reinforced tip



Bulletproof ParaPactum®

NIJ IIIA



The bulletproof ParaPactum® incorporates the qualities of its predecessor with additional ballistic protection, making it the world's first bulletproof umbrella. Laboratory tested, it guarantees NIJ IIIA protection against .44 Mag handguns and machine-guns. Compact, strong and easy to deploy, it is the ideal tool for close protection.

UNFAILING RESISTANCE

Thanks to its unique composite fabric, the bulletproof ParaPactum® has no weak areas. To guarantee strength and lightness, the frame is made of carbon and grade 5 titanium, used in aeronautics.

Technical data

- **Protection** : NIJ IIIA (9mm to .44 Mag)
- **Materials**: carbon, titanium, composite materials
- **Weight**: 4,5 kg - 9,9 lbs
- **Height** : 100 cm - 39 in
- **Diameter** : 100 cm - 39 in
- **Made in France** ■ ■

Highlights

- Single fabric with no weak areas
- Quick opening for instant protection
- Handcrafted in France
- NIJ IIIA protection against the world's most common handgun caliber

Customisation : color – embroidery – numbering



DISCREET SECTURA®



After 3 years of R&D, Semper Invicta has co-developed with Saint James a range of innovative clothing and accessories focusing on the alliance between protection and discretion.

The double-sided knitting used guarantees elegance, comfort and maximum resistance.

The clothes are lightweight and comfortable for optimal long term wear.

PROTECTION, DISCRETION & ELEGANCE

Particularly light and resistant, these garments are suitable for civilians as well as security professionals whose work can be dangerous. Specially designed to meet the triptych «technicality, know-how and elegance», the range aims to satisfy those committed to performance.

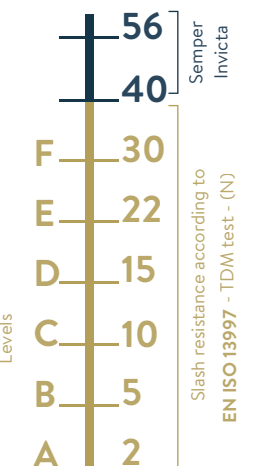
PROVEN EFFECTIVENESS

Our products meet ISO 13997 standards. Laboratory-tested, they exceed the standard maximum value, reaching 40 newtons for the sleeves and body, and 56 newtons for the part protecting the neck.

Who is this range of discreet, protective clothing designed for?

- Law enforcement
- Close protection agents
- Prison services
- Railway security
- Firefighters
- Civilians
- Private security

SEMPER INVICTA
ANTI-AGGRESSION EQUIPMENT





Slash resistant neck warmer

This product was designed to target neck and jugular veins protection. Its flexibility and comfort mean it can be worn with any outfit.

TARGETED PROTECTION

Laboratory-tested, the fabric enveloping this anatomical area offers a protection level of 56 newtons, almost twice the maximum value of the ISO 13997 scale.

Technical data

- **Protection** : ISO 13997 : 56N (col) – 40N (front panel)
- **Materials** : cotton – high molar density polyethylene
- **Available color** : black
- **One size only**
- **Washing** : machine 30° Celsius
- **Made in France** ■ ■

Highlights

- Light and discreet
- Soft and comfortable
- High level of resistance for added protection of sensitive area

ISO 13 997
40N
56N
for the collar



ISO 13 997
40N



Slash resistant sweaters

Combining lightness and protection, this sweater uses a double-sided knit designed to guarantee optimum discretion for its wearers. It protects against lacerations from knives and other sharp objects.

Technical data

- **Protection** : ISO 13997 : 40 N
- **Matériaux** : cotton - high molar density polyethylene
- **Available color** : black
- **Available sizes** : S - 3XL
- **Weight** : 700 grams
- **Washing** : machine 30° Celsius
- **Made in France** ■ ■

Highlights

- High level of slash resistance protection for maximum safety
- Blend of cotton and high molar density polyethylene for long lasting resistance
- Straight double-sided knitting for great resistance



ISO 13 997
40N
56N
for the collar



Slash resistant sweaters with high collar

Semper Invicta has developed slash resistant sweaters with enhanced protection for the neck and jugular veins, a particularly sensitive area. Laboratory-tested, the fabric enveloping this anatomical area ensures a protection level of 56 newtons, almost twice the maximum value on the ISO 13997 scale.

Technical data

- **Protection:** ISO 13997: 56N (collar) 40N (sleeves and body)
- **Materials:** cotton - high molar density polyethylene
- **Available color:** black (custom color on request subject to minimum quantity)
- **Available sizes:** S-3XL
- **Weight:** 700 grams – 1,5 lb
- **Washing:** machine 30° Celsius
- **Made in France** ■ ■

Highlights

- High level of slash resistance protection for maximum safety
- Higher level of resistance for enhanced protection of sensitive areas
- Customisation for optimum discretion
- Straight double-sided knitting for great strength

Variations: zipped jacket, turtleneck

ISO 13 997
40N



Slash resistant undershirt

Semper Invicta has extended its range with a slash resistant undershirt. Specially designed to provide comfort and protection, this undershirt can be worn under clothing for greater discretion. It guarantees the same level of protection as our sweaters.

Technical data

- **Protection:** ISO 13997: 40N
- **Materials:** high molar density polyethylene
- **Available sizes:** S-3XL
- **Weight:** 400 grams – 0,8 lb
- **Washing:** machine 30° Celsius
- **Made in France** ■ ■

Highlights

- Reduced weight for increased freedom of movement
- High level of resistance for enhanced protection
- Lightweight for all-season wear
- Comfortable



TACTICAL SECTURA®

Semper Invicta is expanding its tactical range with lightweight cut-resistant gear designed for operational use.

Made from Kevlar®, the garments are tested in accordance with ISO 13997.



*Non-contractual images

Slash resistant and fire retardant combat shirt

This ergonomic combat shirt (UBAS) offers exceptional comfort thanks to its breathable, flexible fabric. The cut-resistant protection covers the neck and sleeves, safeguarding the areas most vulnerable in close combat.

Thanks to the blend of Kevlar® and Avora®, the combat shirt also protects the wearer from flames. Suitable for both men and women, it can be customized with a minimum order quantity.

ASTM
F1959
ISO 13997
38 N



ASTM
F1959
ISO 13997
38 N



Slash resistant and fire retardant neck warmer (tube)

At the same time, Semper Invicta is unveiling its tactical, cut-resistant, and flame-retardant neck gaiter. Designed for field personnel, it features a tube-style design to conceal facial features when necessary.

Ergonomically designed, the neck gaiter offers superior comfort and breathability, combined with effective neck protection thanks to a blend of Kevlar® and Avora®.

This neck warmer can be customized with a minimum order quantity.

*Non-contractual images

Technical data

- **Protection :** ISO 13997 38N - ANSI (neck & sleeves)
- **Materials :** Kevlar®, Avora®
- **Available color :** black
- **Available sizes :** S à 2XL
- **Washing :** machine 30° Celsius

Highlights

- Light and comfortable
- Discreet and resistant
- High level of resistance for added protection of sensitive area

Technical data

- **Protection :** ISO 13997 38N - ASTM F1959
- **Materials :** Kevlar®, Avora®
- **Available colors :** noir
- **One size only**
- **Washing :** machine 30° Celsius

Highlights

- Light and discreet
- Soft and comfortable
- High level of resistance for added protection of sensitive area



ENFORCR+ Ghost® Glove

The ENFORCR+ Ghost® is an award-winning duty glove engineered for law enforcement personnel. Born from the real-world needs of law enforcement professionals, that demanded a glove with 360-degree cut protection and unmatched dexterity for handling weapons and entry tools. EN 388 certified, with the highest cut rating (level F) thanks to Graphex® thread technology, this glove offers 360-degree cut protection without compromising dexterity.

Technical data

- **Protection** : EN388 4X42FP, Solaire UPF50+
- **Materials** : Graphex®, silicone, nitrile
- **Available sizes** : S - 3XL

Highlights

- 360° cut resistant
- Fire contact resistance 10 seconds at 100°C
- Compatible with touch screens
- Optimum dexterity

ENFORCR+Ghost Sleeve

ENFORCR+ Ghost® wrist guards, made with Graphex® yarn, offer maximum cut resistance. With their secure Velcro closure and 45 cm length, they provide effective protection.

Technical data

- **Protection** : EN388 3X42F, Solaire UPF50+
- **Materials** : Graphex®
- **One size only**

Highlights

- 360° cut resistant
- Fire contact resistance 10 seconds at 100°C



*Non-contractual images

Slash resistant softshell

ISO 13997
38 N



Complementing the anti-laceration range, the softshell jacket provides protection against cuts from bladed weapons across the entire body. It can be customised subject to a minimum order quantity and can be adapted to suit your company and your uniform.

Designed to support operational staff in the field, it ensures optimal freedom of movement thanks to its ergonomic and flexible design. Its technical construction also provides enhanced protection against stabbing attacks, validated by rigorous testing in accordance with the ISO 13997 standard.

Technical data

- **Protection** : ISO 13997 38 N - Level F
- **Materials** : Kevlar®
- **Available colors** : black
- **Available sizes** : S - 2XL
- **Washing**: machine 30° Celsius

Highlights

- Light and comfortable
- Discreet and resistant
- High level of resistance for added protection of sensitive area



DISCREET BALLISTICUM®

Semper Invicta has developed a range of bulletproof accessories that are identical in every way to everyday objects.

Who is this range of discreet, protective clothing designed for?

- Law enforcement
- Prison services
- Firefighters
- Private security
- Close protection agents
- Railway security
- Civilians



Bulletproof down vest

Discreet and lightweight, our bulletproof down vest protects against handguns up to 44 magnum and offers KR1 protection against stabbing. This jacket can be fitted with removable NIJ IIIA ballistic inserts.

Comfortable and sleek, this down jacket offers discreet protection.

NIJ IIIA
STAB

KR1



Technical data

- **Ballistic protection:**
NIJ IIIA + STAB 36 joules (NIJ 0115)
OR
- **Stab resistance:**
KR1 36 joules (HOSDB)
- **Materials:** polyester, composite materials
- **Available colors :** black
- **Available sizes :** S - 3XL
- **Weight:** 1,8 kg - 3,9 lbs (size M)
- **Thickness :** 4 mm - 0,16 in
- **Washing:** machine 30° Celsius
- **Made in France** ■ ■

Highlights

- Lightweight and flexible materials for greater comfort
- Suitable for any outfit
- Intuitive removable system for ease of use
- Total discretion

Bulletproof tank top

Designed to be worn under clothing, this bulletproof tank top provides discreet protection.

NIJ IIIA
STAB

KR1

TARGETED PROTECTION

Designed for field operatives, this bulletproof tank top ensures optimum protection and discretion. It can be worn directly against the skin or over a garment and is suitable for all climates.



Technical data

- **Ballistic protection:**
NIJ IIIA + STAB 36 joules (NIJ 0115)
OR
- **Stab resistance:**
KR1 36 joules (HOSDB)
- **Materials:** polyamide, polyester, composite materials
- **Available colors:** white
- **Available sizes:** S - 3XL
- **Weight:** 1,8 kg - 3,9 lbs (size M)
- **Thickness:** 4 mm - 0,16 in
- **Washing:** machine 30° Celsius
- **Made in France** ■ ■

Highlights

- Total discretion
- Lightness and comfort
- Removable inserts
- Breathable fabric
- Great freedom of movement

Customisation: subject to a minimum order quantity



**NIJ III ++
NIJ IIIA
STAB**

Bulletproof briefcase

This elegant briefcase unfolds its three sides in a snap thanks to its magnet system, offering immediate, mobile protection.

QUICK DEPLOYMENT

Designed for close protection, this leather case deploys in less than a second, providing mobile bulletproof and stab-resistant protection. Discreet and lightweight, it can be deployed and used with one hand.



Technical data

- **Ballistic protection:**
NIJ IIIA + STAB 15 joules (NIJ 0115)
- Materials: leather, composite materials
- **Available colour: black**
- Width: 50 cm – 20 in
- **Folded height: 33 cm – 13 in**
- **Unfolded height: 1 m – 39 in**
- Weight: 4 kg – 8,8 lbs
- **Made in France** ■ ■

Highlights

- One-hand use
- Fast deployment
- Lightweight and discretion
- Central fluorescent target to attract shots

Customisation: on request subject to minimum quantities

NIJ IIIA

Bulletproof backpack



After its discreet clothing, Semper Invicta has added a multifunctional accessory to its range.

This practical, lightweight backpack features a back pocket into which a level IIIA ballistic insert can be put.

The surface of the ballistic insert protects vital organs when worn on the back or used as a shield. The internal elastic bands allow you to carry several magazines or small items of equipment.

In addition to its technical properties, this backpack has all the features needed to fulfill its initial role: water bottle holder, computer pocket, top pocket, universal elastic fastenings, adjustable shoulder straps.

Technical data

- **Ballistic protection:**
NIJ IIIA + STAB 15 joules (NIJ 0115)
- **Available color: black**
- **One size only**
- **Large storage capacity (20 L)**
- **Made in France** ■ ■

Highlights

- Lightweight inserts for freedom of movement
- Use as a mobile shield
- Elastic straps for magazines and equipment
- 3D mesh for enhanced breathability

Customisation: on request subject to minimum quantities



TACTICAL BALLISTICUM®

Semper Invicta offers a range of bulletproof vests and plate carriers worn visibly. Specially designed for personal protection, our vests guarantee protection for the wearer's vital organs.

The integrated ballistic packs and plates are laboratory tested up to NIJ IV



Bulletproof hybrid tactical vest

This ergonomic vest offers great comfort to the wearer thanks to its breathable cover. The MOLLE attachment system used by NATO forces allows all kinds of pouches and accessories to be attached. This bulletproof vest guarantees 360° NIJ 3A protection and can be supplemented with two plates up to NIJ 4 (ICW/SA).

Comfortable, durable and modular, it is ideal for demanding operational use.

NIJ IIIA
STAB



Technical data

- **Protection :** NIJ IIA, NIJ III ++, NIJ IV
- **Color:** black
- **Available sizes :** XS - 3XL
- **Weight :** 1,2 kg
- **Materials :** Cordura®, nylon
- **Washing:** machine 30° Celsius
- **Water resistant**
- **Ballistic packs made in France** ■ ■
- **5-year warranty on ballistic plates**

Highlights

- Elastic openwork cummerbunds
- MOLLE attachments
- Set of velcro ventipads
- Quick Release system
- Removable ventral chest rig (optional)
- Emergency handle
- 360° protection
- Plates SAPI NIJ III+/NIJ IV (optional)

NIJ III ++
NIJ IV



Plate carriers & plates NIJ III ++/NIJ IV

Semper Invicta offers specialised plates designed to protect against Russian weapon ammunition such as the 7.62 x 39 used in the AK47 Kalashnikov and the 7.62 x 54 Dragunov.

The unrivalled multi-impact capacity of these plates provides increased protection while offering an excellent compromise between weight and comfort. This plate carrier is particularly well suited to current threats.

Technical data

- **Protection :**
NIJ III++ : 7,62 x 39 API BZ / 7,62 x 54 R LPS
NIJ IV : .30-06 APM2
- **Formats SA / ICW :**
SAPI 25 x 30 cm
Side plate 15 x 15 cm
- **Weight NIJ III++ :** from 1,1 kg
- **Weight NIJ IV :** from 3 kg
- **Tested according to standard NIJ 0101.06**
- **Ballistic packs made in France** ■ ■

Highlights

- Proven multi-impact resistance
- Maximum waterproofing for all-terrain combat
- Optimised lightness
- Multi-axial flexibility

SIZE GUIDE

BULLETPROOF DOWN VEST

| MEASUREMENTS IN CM | | S | M | L | XL | XXL |
|--------------------|-----------------|------|------|------|------|-------|
| A | Height shoulder | 67,5 | 68 | 68,5 | 69 | 69,5 |
| B | Chest size | 91,5 | 96,7 | 99,3 | 103 | 106,5 |
| C | Bottom width | 79,7 | 82,5 | 85,6 | 89,6 | 93,2 |

0672 SLASH RESISTANT ROUND NECK SWEATER

| MEASUREMENTS IN CM | | S | M | L | XL | XXL | 3XL |
|--------------------|----------------|------|------|------|------|------|------|
| A | Total length | 68,5 | 70,5 | 72,5 | 74,5 | 76,5 | 78,5 |
| B | Chest size | 46 | 50 | 54 | 58 | 62 | 66 |
| D | Sleeve length | 62 | 64 | 66 | 68 | 70 | 72 |
| F | Shoulder width | 37 | 40 | 43 | 46 | 49 | 52 |
| H | Bottom width | 42 | 46 | 50 | 54 | 58 | 62 |



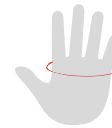
2556 SLASH RESISTANT TURTLENECK SWEATER

| MEASUREMENTS IN CM | | S | M | L | XL | XXL | 3XL |
|--------------------|----------------|------|------|------|------|------|------|
| A | Total length | 68,5 | 70,5 | 72,5 | 74,5 | 76,5 | 78,5 |
| B | Chest size | 46 | 50 | 54 | 58 | 62 | 66 |
| D | Sleeve length | 62 | 64 | 66 | 68 | 70 | 72 |
| F | Shoulder width | 37 | 40 | 43 | 46 | 49 | 52 |
| H | Bottom width | 42 | 46 | 50 | 54 | 58 | 62 |



SLASH RESISTANT GLOVE GHOST®

| 6 / XS | 7 / S | 8 / M | 9 / L | 10 / XL | 11 / 2XL | 12 / 3XL |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 170 - 190 mm | 190 - 200 mm | 200 - 210 mm | 210 - 230 mm | 230 - 250 mm | 250 - 280 mm | 280 - 300 mm |



BULLETPROOF TANK TOP

| MEASUREMENTS IN CM | M | L | XL | XXL | Tolerance |
|-----------------------------|------|------|------|------|-----------|
| Length from shoulder | 69 | 71 | 73 | 75 | 1 |
| 1/2 chest width | 50 | 52 | 54 | 56 | 1 |
| 1/2 bottom width | 54,6 | 56,6 | 58,6 | 60,6 | 1 |
| Height bottom hem | 2 | 2 | 2 | 2 | 0 |
| Collar width | 17,6 | 18 | 18,4 | 18,8 | 0,5 |
| Collar depth | 11 | 11,2 | 11,4 | 11,6 | 0,5 |



SUMMARY OF PROTECTION LEVELS

| PRODUCTS | ISO 13997 | | | Flame resistance | HOSDB KR1 SP1 | NIJ 3A + STAB (NIJ 0115) | NIJ 3 ++ | NIJ 4 |
|--|-----------|------------|-------------|------------------|---------------|--------------------------|----------|-------|
| | F+ (38 N) | F++ (40 N) | F+++ (56 N) | | | | | |
| Individual ParaPactum® | ✓ | | | | | | | |
| Bulletproof ParaPactum® | | | | | | ✓ | | |
| Sweaters & undershirt | | ✓ | | | | | | |
| Zippered jacket, turtleneck, neck warmer | | ✓ | ✓ | | | | | |
| Combat shirt | ✓ | | | ✓ | | | | |
| Neck warmer - tube | ✓ | | | ✓ | | | | |
| Ghost® glove | ✓ | | | | | | | |
| Ghost® sleeve | ✓ | | | | | | | |
| Softshell | ✓ | | | | | | | |
| Bulletproof down vest, tank top | | | | | ✓ | ✓ | | |
| Bulletproof backpack, briefcase | | | | | | ✓ | | |
| Hybrid tactical vest | | | | | | ✓ | ✓ | ✓ |
| Plates | | | | | | | ✓ | ✓ |

THE STANDARDS



ISO 13997 – SLASH RESISTANCE

The ISO 13997 standard regulates the fabric protection levels against lacerations. It determines the resistance to cuts made by sharp objects.

Semper Invicta materials resistance was tested by the cut-off test method TDM. This tool imitates a laceration on the fabric by putting the cutting edge of a straight blade with a constant force on a 20 mm – 0,8 inch distance.

The sample is subject to a progressive pressure starting at 2 newtons and increasing with each new blade movement. The aim is to find out the minimum weight required to cut through the fabric on a single movement.

ISO 13997 standard separates products into 6 categories from A to F as seen on the following correlation table:

| LEVELS | A | B | C | D | E | F |
|---|---|---|----|----|----|----|
| Slash resistance according to EN ISO 13997 – TDM test – (N) | 2 | 5 | 10 | 15 | 22 | 30 |

You may find next to each Semper Invicta's slash resistant product a pictogram showing their result to the ISO 13997 TDM cut-off test.



KR1 – STAB RESISTANCE

Some of Semper Invicta's inserts are certified KR1 (Knife Resistance 1), standard set by the HOSDB (Home Office Body Armour Standard). This means that they are resistant to stabbing, not to be confused with laceration as measured with ISO 13997.

Within level KR1, our samples are tested in the laboratory at energy levels E1 and E2, i.e. with stab energies of 24 and 36 joules respectively.

| PROTECTION LEVEL | E1 ENERGY LEVEL | | | E2 ENERGY LEVEL | | |
|------------------|-----------------|-----------------------------|-------------|-----------------|-----------------------------|-------------|
| | Energy (J) | Maximum penetration E1 (mm) | SPL E1 (mm) | Energy (J) | Maximum penetration E2 (mm) | SPL E2 (mm) |
| KR1 | 24 | 8 | 9 | 36 | 20 | 30 |



NIJ – BULLETPROOF

Semper Invicta bulletproof products are NIJ (USA National Institute of Justice) certified, the most widely used ballistic protection standard in the world.

Our ballistic partner provides us with laboratory-tested inserts that protect against certain types of bullets. The levels of protection range from NIJ II to NIJ IV.

Here are the ones that Semper Invicta provides :

- NIJ IIA (Bulletproof ParaPactum): 9mm and 40 S&W handguns and machine pistols.
- NIJ IIIA (bulletproof sweaters, bulletproof down vest, bulletproof vests): 9mm to 44 mag.
- NIJ III+ (plate carriers): 7.62×39 API BZ / 7.62×54 R LPS military calibres.

| PERFORMANCE LEVEL | TEST BULLET | BULLET MASS (gram) | DISTANCE MUZZLE-TARGET (m) | VELOCITY (m/s) | PERFORMANCE REQUIREMENTS | | | |
|-------------------|--------------------|--------------------|----------------------------|----------------|----------------------------------|-----------------------------------|----------------------------------|------------------------------|
| | | | | | Shots/panel 0° OTAN impact angle | Shots/panel 30° OTAN impact angle | Maximum back face signature (mm) | Total shot per bullet threat |
| 1 | .22 caliber LR LRN | 2.6 | 5 | 329 ± 9 | 4 | 2 | 44 | 24 |
| | .380 ACP FMJ RN | 6.2 | 5 | 322 ± 9 | 4 | 2 | 44 | 24 |
| 2A | 9mm FMJ RN | 8.0 | 5 | 341 ± 9 | 4 | 2 | 44 | 24 |
| | .40 S&W FMJ | 11.7 | 5 | 322 ± 9 | 4 | 2 | 44 | 24 |
| 2 | 9mm FMJ RN | 8.0 | 5 | 367 ± 9 | 4 | 2 | 44 | 24 |
| | .357 Magnum JSP | 10.2 | 5 | 436 ± 9 | 4 | 2 | 44 | 24 |
| 3A | 9mm FMJ RN | 8.0 | 5 | 436 ± 9 | 4 | 2 | 44 | 24 |
| | .44 Magnum SJHP | 15.6 | 5 | 436 ± 9 | 4 | 2 | 44 | 24 |
| 3+ | 7.62mm NATO Ball | 9.6 | 15 | 847 ± 9 | 6 | 0 | 44 | 12 |



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