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Company Profile

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ANORAK

is all about

Protection

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■ Protection from **Weather**



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■ Protection from Firearms, Blades and Spikes

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ANORAK

Who we are:

- **43 years experience in protective wear**
- **10 years in ballistic protection**

Production unit in privately owned 900m² premises in Athens

Some of our clients:

- > **Public Sector:** Hellenic Railways Organization, Local Municipal Authorities, Hellenic Police Force, Port of Piraeus, Hellenic Air Force, Hellenic Ministry of Justice, Hellenic Coast Guard.
- > **Private Sector:** Blue Star & Super Fast Ferries, Aegean Airlines, Attica Road, Brinks Security, Fasma Security.

Certificates:   

- > European Union **EN471 Certificate** for Protective Wear.
- > European Union **EN14058 Certificate** for Cold-Weather Clothing.
- > Certificate **ISO 9001:2015** for design and production of antiballistic solutions.
- > Certificate **ISO 14001:2015** Environmental Management Certificate.

Countries that we export to:

- > Belgium, Netherlands, Czech Republic, France, South Africa, Finland.



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Why ANORAK?

- > Because we follow the **highest international standards** for our products.
- > Because **every stage** of our production process goes through **thorough quality control, eliminating** life-threatening mistakes.
- > Because we are committed in having our own **in-house** production thus having **direct control over the quality of our products**.
- > For the **fast and direct** customer service, serving clients from all over the world.
- > For immediate and efficient **after-sales** repair and maintenance services.
- > Because we take **great pride in our environment-friendly** manufacturing and disposal processes.
- > Because we have **over 40 years experience in the industry**. Our personnel are seasoned professionals with unmatched records in their expertise.

Company Mission

To continuously develop
New Protection Solutions
that are based on
Innovation, Quality, Reliance and Sustainability.



ANORAK values

For 4 decades, ANORAK has been synonymous with **quality and reliance**.

Our effort is driven by :

- > The protection of Human Life**
- > The importance of Trust**
- > The demand for the Highest Quality Control**

Our Products

Combining our innovative manufacturing along with our high specification standards we can offer protective solutions for your every need.

Product Range:

- > **Soft Armor Vests**
- > **Blade and Spike Resistant Vests**
- > **Hard Armor Plates**



The ANORAK Production Procedures

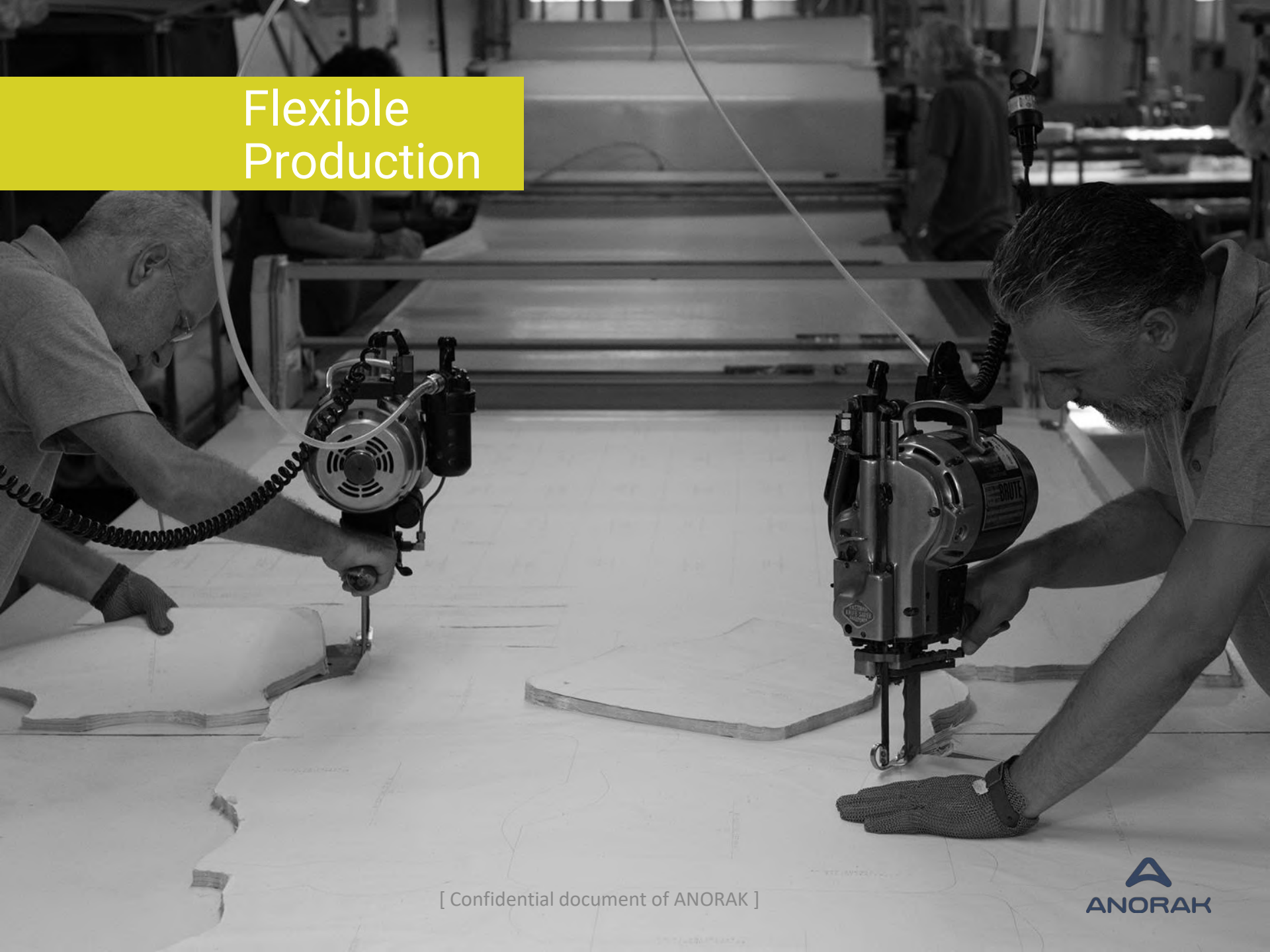
[Confidential document of ANORAK]



How we produce

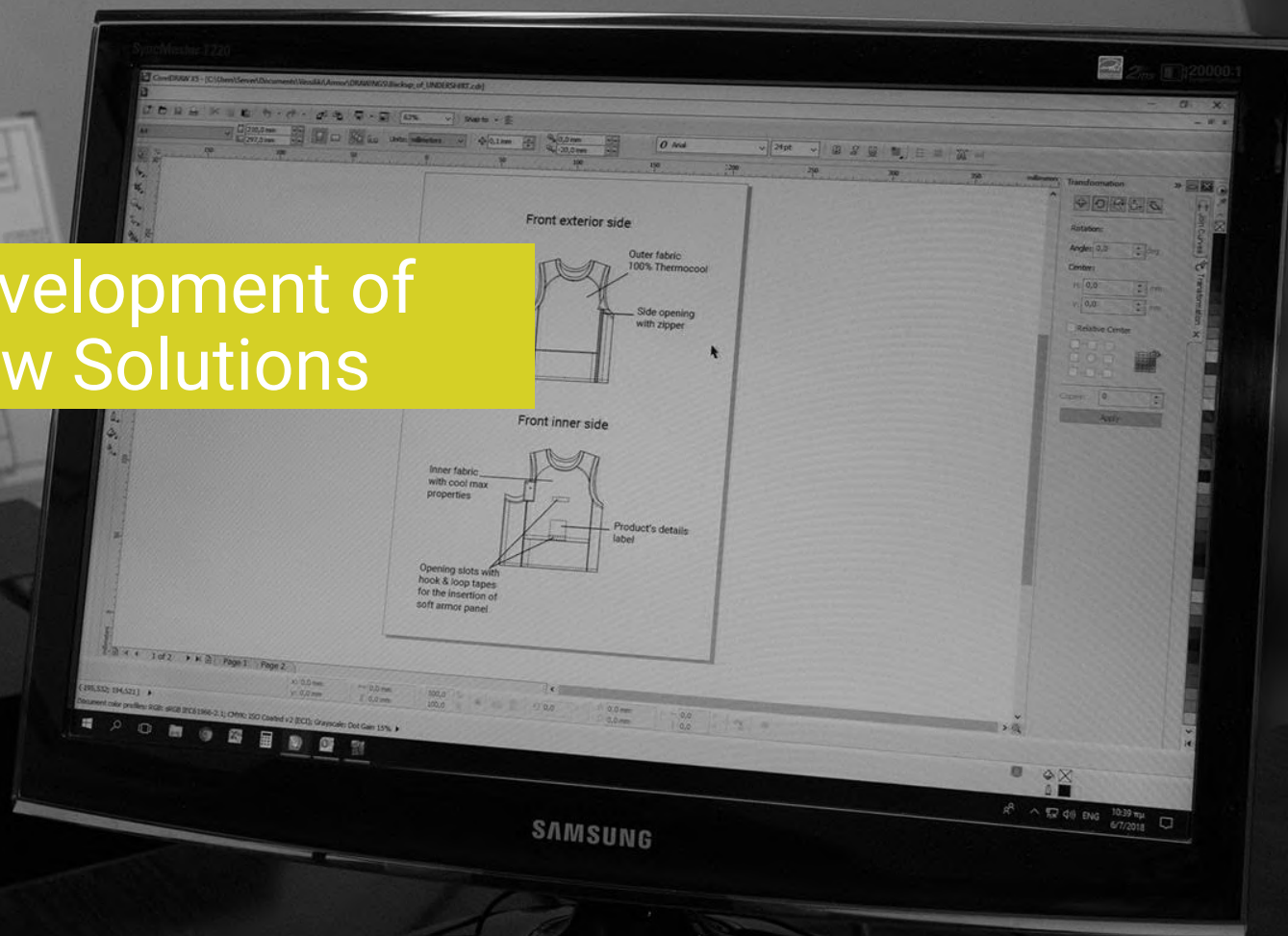
ANORAK has the ability to function as a **manufacturer & supplier** to the **Ministry of Public Security of the Socialist Republic of Vietnam**, by becoming a key partner, since we differentiate in **3 key elements:**

Flexible Production



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Development of New Solutions





Production Control

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Flexibility

Anorak's **flexible production scheme** allows the production of differentiated **customized solutions** - custom made soft armor vests according to individual specifications and needs.

Development of New Solutions

The **Research & Development Department of ANORAK**:

- Travels around the globe and attend major exhibitions of the industry to discover the best innovative materials.
- In close cooperation with the accredited laboratory AITEX, tests all new materials to all ballistic standards.
- Develops new ballistic solutions and designs new carriers according to the needs of the customer.

Allowing thus the development of customized solutions for personalized needs.



Control

In addition to the requirements of the quality management standard, **ANORAK** implements **exhaustive production and quality control procedures**:

Traceability

Strict recording of production data to enable traceability of products in every detail.

Control of production process

Systemic process where each workstation checks the result of the previous one, ensuring that all required specifications are correctly observed.

Example of ballistic production quality control

1st Control Stage: Prior to cutting of the ballistic sheets.

- Visual Inspection of all ballistic material for defects.

2nd Control Stage: During the synthesis of the panels.

- Counting of the ballistic sheets for each panel separately.
- Weighing of the panels.

3rd Control Stage: Prior to the insertion in the protective envelope.

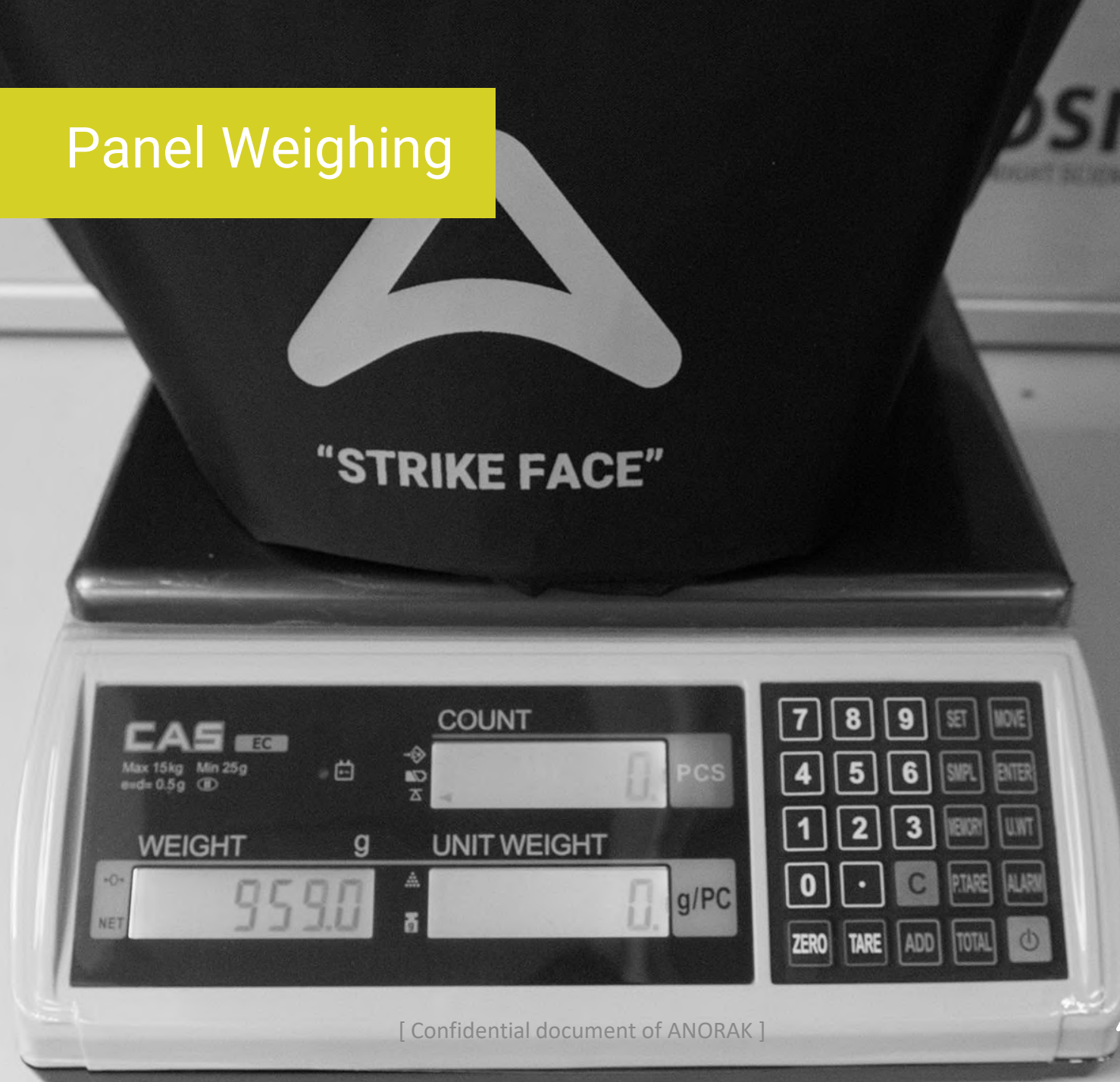
- Random sampling and counting of the ballistic sheets.
- Random sampling and weighing of panels.

Counting of the Ballistic Sheets



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Panel Weighing



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Traceability Procedure



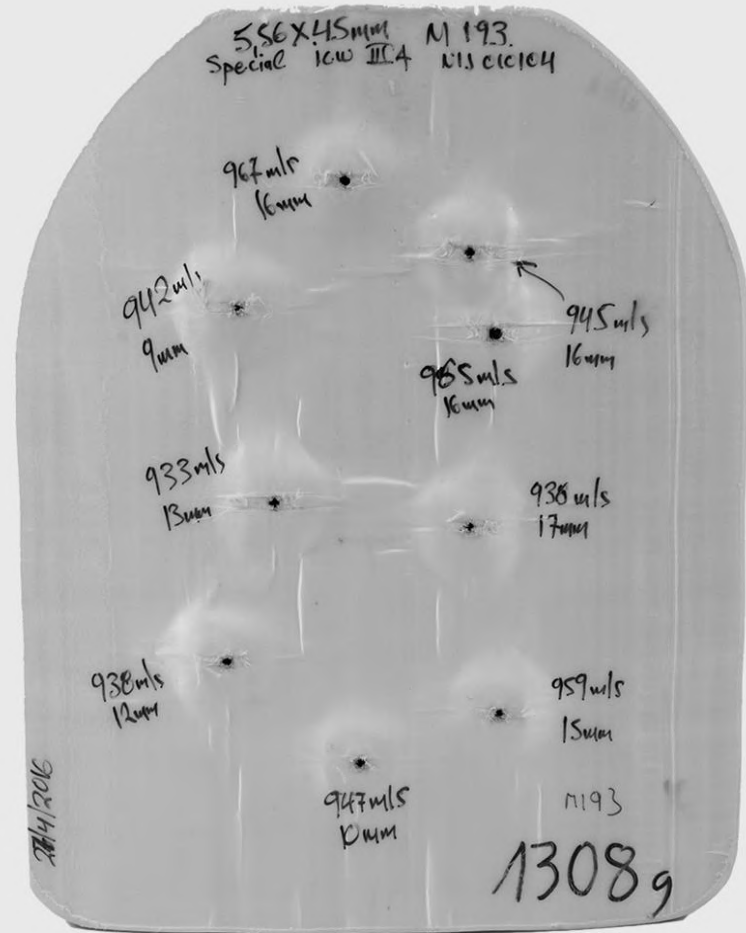
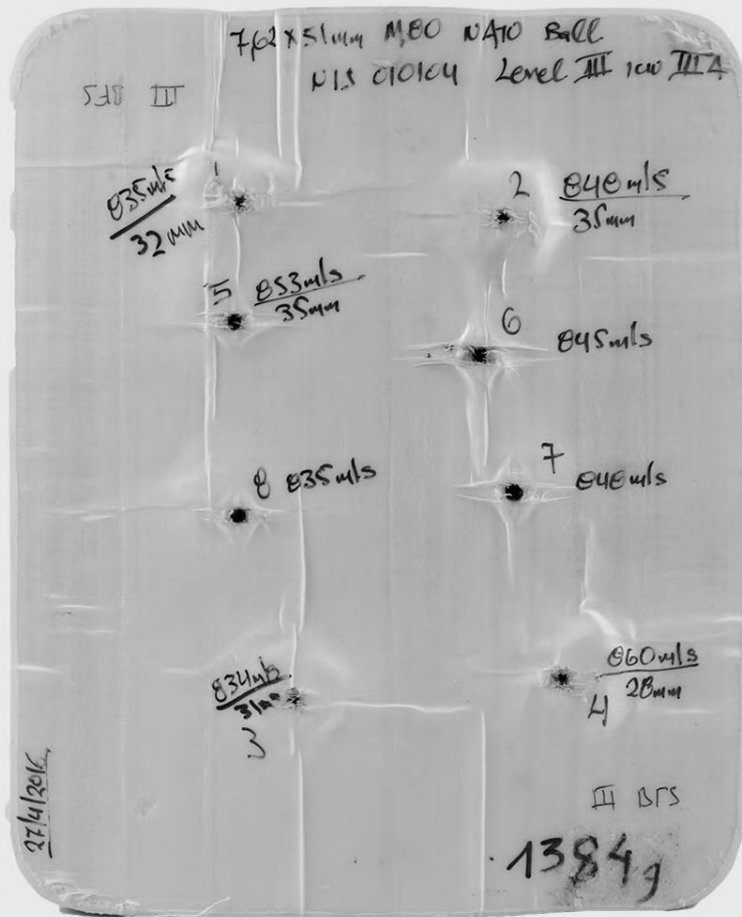
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Tests on Soft Armor Panels



Shooting Tests on Hard Armor Plates



Ballistic standards / Certifications

- **NIJ Standards – American Institute of Justice**

World-wide accepted ballistic standards.



- **Certifications – Aitex Institute Spain**

One of the most acclaimed, accredited and internationally recognized European laboratories.





Our Product Proposals

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Protection from Fire-arms

Soft Armour Panel SP.3A.303 “Rhodium®”

Protection level IIIA++ Acc. to NIJ 0101.06:

- > .44 Magnum SJHP SPEER 4453
- > .357 SIG JSP SPEER 4363

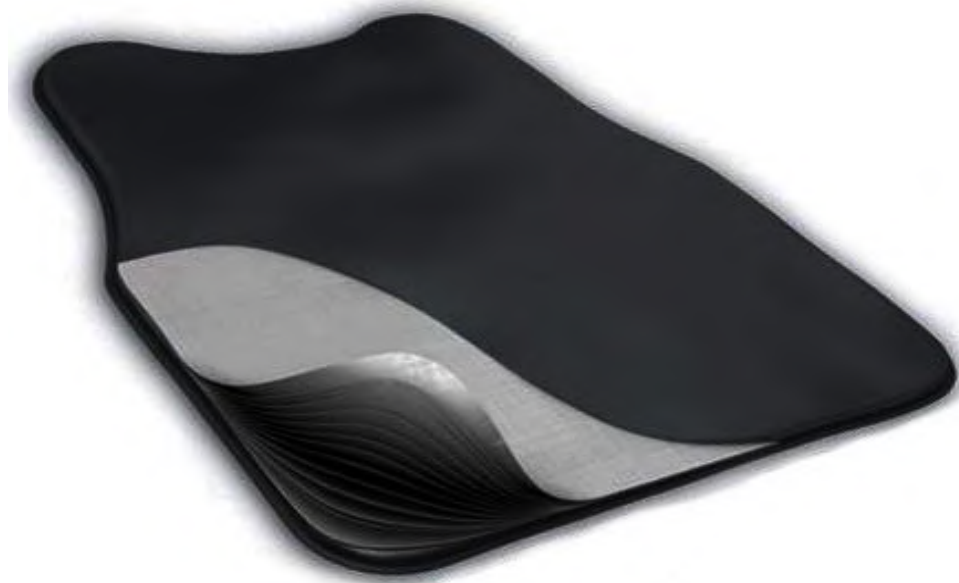
Extra Threats:

- > 7.62x25mm FMJ TOKAREV LC
- > 9x18 FMJ Makarov MSC (Mild Steel Core)
- > 9x19mm HP ACTION 4 RUAG
- > Blade S1/G maximum perforation $\leq 12\text{mm}$
@ 33Joules acc. to NIJ 0115.00
- > Blade P1/A maximum perforation $\leq 20\text{mm}$
@ 20Joules acc. to NIJ 0115.00
- > Blade P1/B maximum perforation $\leq 17\text{mm}$
@ 24Joules acc. to HOSDB 2017

> **Weight:** 5.75 kg/m²

> **Thickness:** 8 mm

> **Certification:** AITEX



Multi Threat Protection

Soft Armour Panel SP.3A.301 “Titanium®”

Protection level IIIA++ Acc. to NIJ 0101.04:

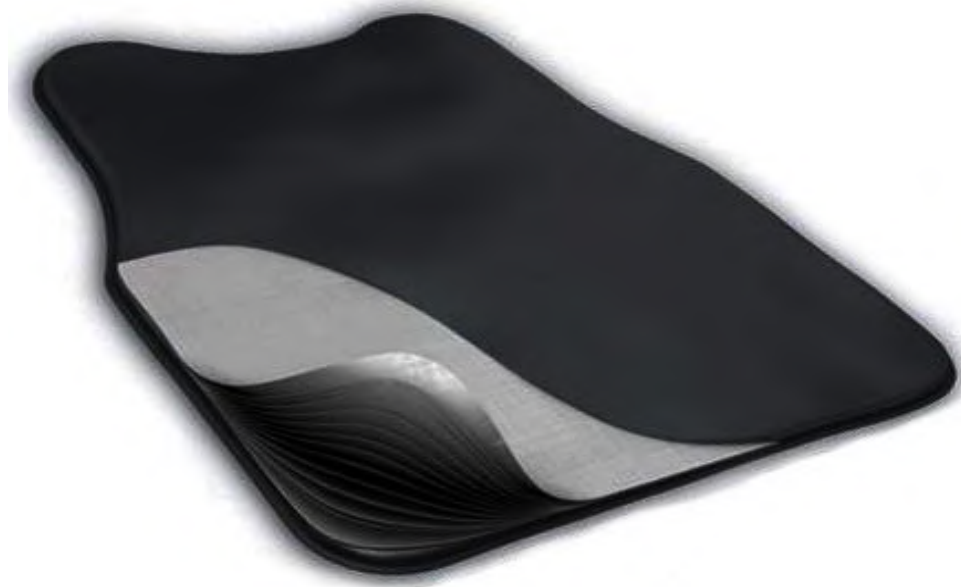
- > 9x19mm
- > 0,44 Magnum

Extra Threats:

- > 7,62x25 Tokarev TT
- > 9x18 Makarov MSC (Mild Steel Core)
- > Blade S1/G (max. perf @20J \leq 16mm)

- > V50 \geq 595m/sec
- > Weight: 5,55 kg/m²
- > Thickness: 7 mm

- > Certification: AITEX



Protection from Fire-arms

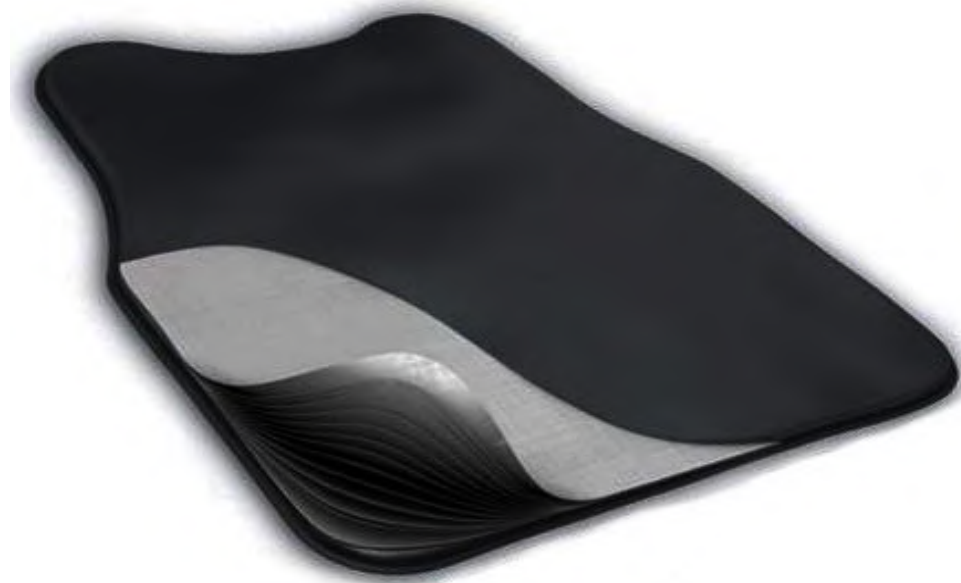
Soft Armour Panel SP.3A.302 “Chromium®”

Protection level IIIA+ Acc. to NIJ 0101.04:

- 9x19mm
- 0,44 Magnum

Extra threats:

- 7.62x25 Tokarev TT
- **V50 ≥581m/sec** (9x19mm 8g FMJ RN)
- **V50 ≥587m/sec** (7.62x25mm 5.5g FM)
- **Weight:** 5,15 kg/m²
- **Thickness:** 7 mm
- **Certification:** AITEX



Protection from Fire-arms

Soft Armour Panel SPM.3A,1.2304 “Niobium®”

Protection level IIIA Acc. to NIJ 0101.04:

- 9x19mm
- 0,44 Magnum

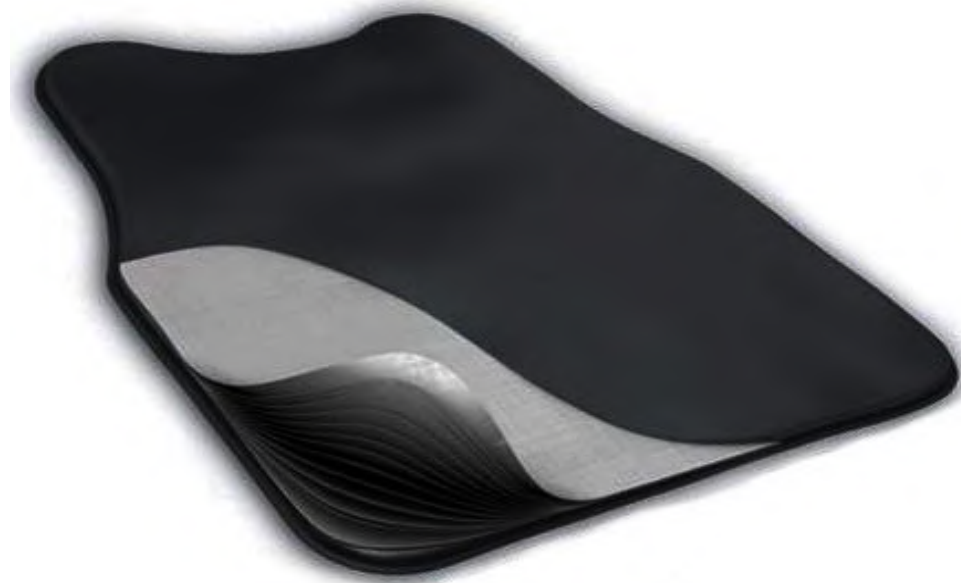
Protection level Acc. to NIJ 0115.00:

- **Blades P1/A, S1/G: Level 2**
- **NIJ Spike: Level 1**
- **V50 $\geq 550\text{m/sec}$** (9x19mm 8g FMJ RN)
- **Blade S1/G** (max. perf @33J $\leq 0\text{mm}$)
- **Blade S1/G** (max. perf @50J $\leq 0\text{mm}$)
- **Blade P1/A** (max. perf @33J $\leq 3\text{mm}$)
- **Blade P1/A** (max. perf @50J $\leq 13\text{mm}$)
- **Spike NIJ** (max. perf @24J $\leq 0\text{mm}$)
- **Blade P1/A** (max. perf @36J $\leq 5\text{mm}$)

➤ **Weight:** 7,20 kg/m²

➤ **Thickness:** 12 mm

➤ **Certification:** AITEX



Blade and Spike Protection

Soft Panel SSP.1.501 “Topaz®”

Protection level I Acc. to NIJ 0115.00:

- Blade P1/A
- Blade S1/G
- Spike
- **Weight:** 5,40 kg/m²
- **Thickness:** 5.5 mm
- UD ARAMID
- Offers maximum protection from every sharp edged or pointed instrument with applied force up to 36 Joules and maximum perforation 10 mm.
- **Certification:** AITEX



Protection from Rifles

Hard Armour Plate III icw IIIA, HP.3.1001 “Iridium®”

Protection Level III++ ICW IIIA Acc. to NIJ 0101.04

Multiple Shots

- > 6 shots 7,62x51mm M80 NATO BALL or
- > 6 shots 7,62x39mm MSC AK-47 or
- > 6 shots 5,56x45mm M193
- > **V50 ≥1.036m/sec** (7,62x51mm M80)

> **Weight:** 1.350gr ±40 gr

> **Thickness:** 22mm ±1mm

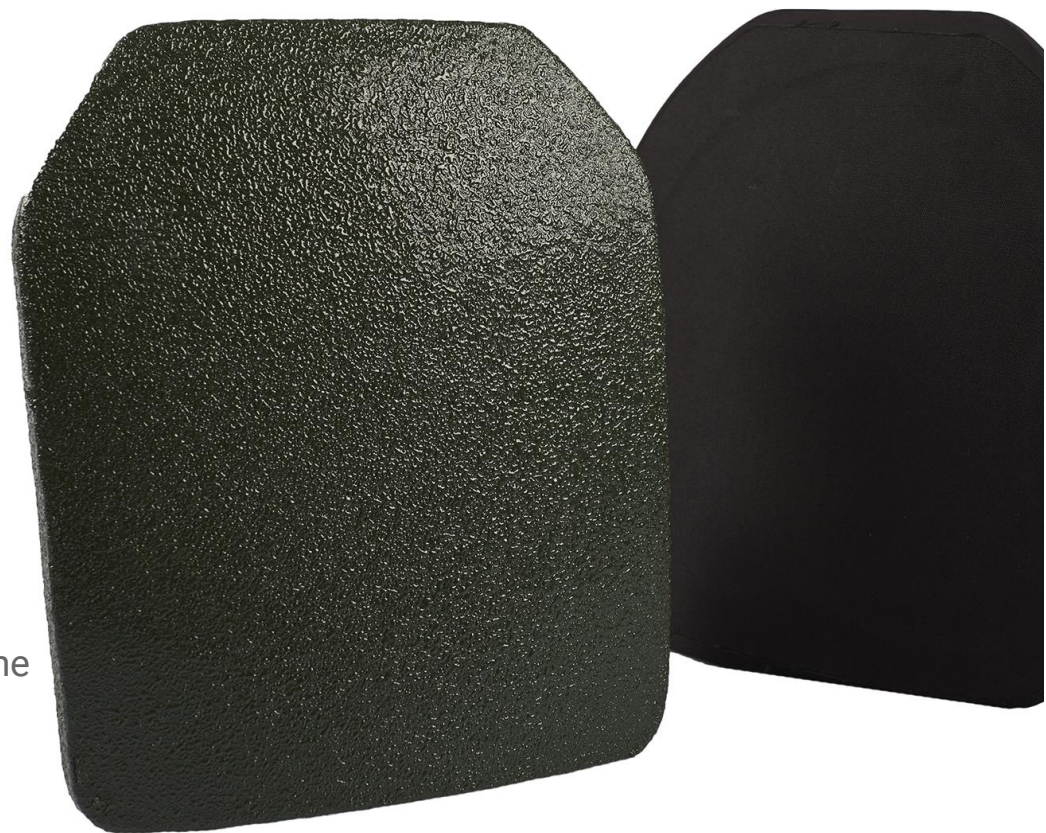
> Ergonomic design

Trimmed upper corners so as not to obstruct the user when in firing position.

> Coated with **POLYUREA** or **CORDURA**:

Ensures that no projectile fragments will exit the plate

> **Certification:** AITEX



Protection from Rifles

“Stand-Alone” Hard Armour Plate, HP.3.1002 “Osmium®”

Protection Level III+ Acc. to NIJ 0101.04

Multiple Shots

- > 6 shots 7,62x51mm M80 NATO BALL or
- > 6 shots 7.62x39mm MSC (AK-47 KALASHNIKOV) or
- > 6 shots 5,56x45mm M855/SS109 or
- > 6 shots (2 shots from each of the above calibers)
- > **V50 $\geq 1.025\text{m/sec}$** (7,62x51mm M80)

> **Weight:** 1.720gr ± 40 gr

> **Thickness:** 24mm ± 1 mm

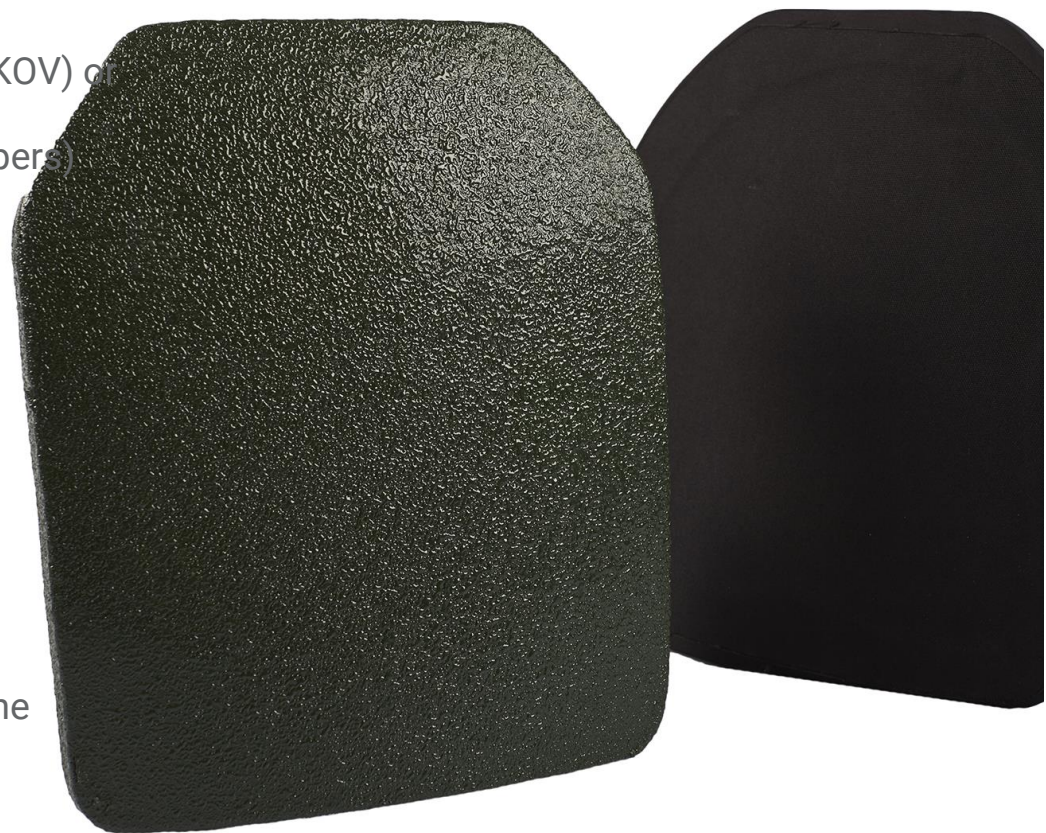
> Ergonomic design

Trimmed upper corners so as not to obstruct the user when in firing position.

> Coated with **CORDURA**:

Ensures that no projectile fragments will exit the plate

> **Certification:** AITEX



Protection from Rifles

Hard Armour Plate III icw IIIA, HP.3.1003 “Iridium®”

Protection Level III++ ICW IIIA Acc. to NIJ 0101.06

Multiple Shots

- > 6 shots 7,62x51mm M80 NATO BALL or
- > 6 shots 7.62x54R LPS (DRAGUNOV) or
- > 6 shots 7.62x39mm MSC (AK-47 KALASHNIKOV) or
- > 6 shots 5,56x45mm M193
- > **V50 ≥995m/sec** (7,62x51mm M80)

> **Weight:** 1.400gr ±40 gr

> **Thickness:** 25mm ±1mm

> Ergonomic design

Trimmed upper corners so as not to obstruct the user when in firing position.

> Coated with POLYUREA or CORDURA:

Ensures that no projectile fragments will exit the plate

> **Certification:** AITEX



Concealable type carrier “Undershirt I”



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Concealable type carrier “Undershirt I”



- Unique combination of THERMOCOOL™ and COOLMAX® fabrics

COOLMAX®

ADVANSIA THERMO°Cool™

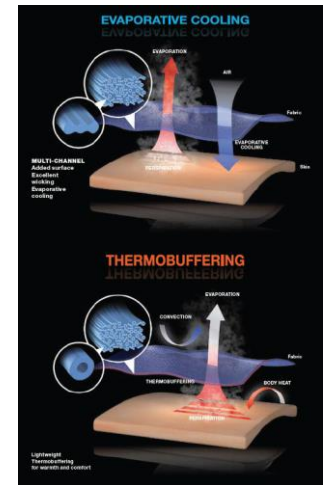
- Temperature regulation properties

- Air circulation for the elimination of moisture

- Antibacterial

- Ballistic panels secured within internal pockets

- Side opening system with low detection zipper



Concealable type carrier “VIP I”



- Extensive body coverage (front – back – neck bones - sides)
- Imitation of an ordinary suit vest
- Lightweight
- Ballistic panels secured within internal pockets
- Two-points adjustment system with hook & loop tapes at the back

Covert type carrier "Concealable I"



> **Shell :**

RIP-STOP Dry Comfort XT®.

Breathable , waterproof ,water, soil & oil repellent fabric.



> **Lining : High moisture-transfer and compression recovery fabric.** 3D polyester SPACER fabric, 3.5mm, COOLMAX® fresh

> **Four- point adjustment system with elastic bands on the shoulders and waist.**

Covert type carrier “Concealable II”



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Covert type carrier "Concealable II"



- > **Shell:**
RIP-STOP Dry Comfort XT®.
Breathabl , waterproof ,water, soil & oil repellent fabric.



- > **Lining: High moisture-transfer and compression recovery fabric.** 3D polyester SPACER fabric, 3.5mm, COOLMAX® fresh
- > **Four-point adjustment system with elastic bands on the shoulders and waist.**



Overt type carrier “Duty I”



[Confidential document of ANORAK]

Overt type carrier “Duty I”



Back side

> **Shell:** **CORDURA®**
Breathable, waterproof, windproof, water and soil repellent

High Durability nylon 6.6
Cordura® 1000D

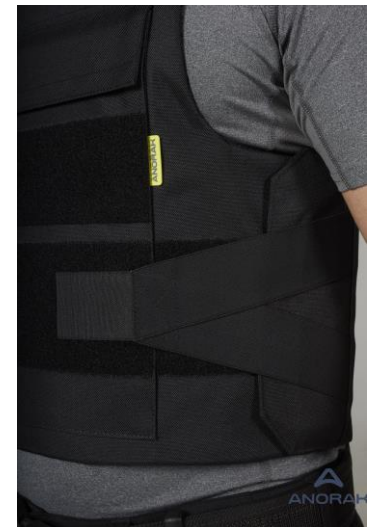
spacetec®

COOLMAX®

> **Lining:**
High moisture-transfer and compression recovery fabric. 3D polyester SPACER fabric, 3.5mm, COOLMAX® fresh

> **Hook & Loop fasteners** acc. to MIL SPEC F AA-55126B for 10.000 opening and closings.

> **Front and rear external pockets** to insert hard plates (25 x30 cm)



Overt type carrier “Duty III”



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Overt type carrier "Duty III"



> **Shell:** **CORDURA®**
Breathable, waterproof, windproof, water and soil repellent

High Durability nylon 6.6
Cordura® 1000D

spacetec®

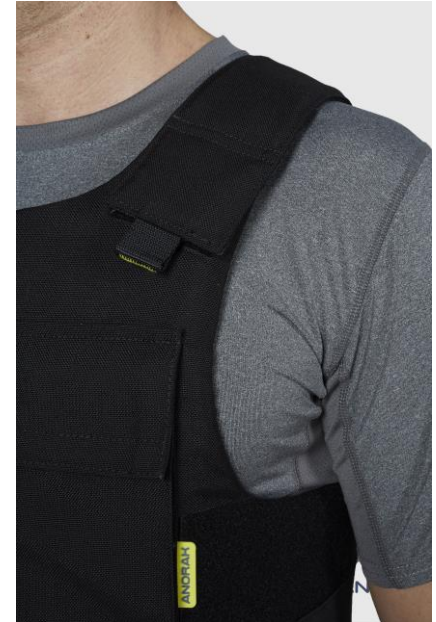
COOLMAX®

> **Lining:** High moisture-transfer and compression recovery fabric. 3D polyester SPACER fabric, 3.5mm, COOLMAX® fresh

> **Hook & Loop fasteners** acc. to MIL SPEC F AA-55126B for 10.000 opening and closings.

> **Front and rear external pockets** to insert hard plates (25 x30 cm)

> **Inner elastic waist band** for optimal weight distribution



Tactical type carrier “Tactical II”



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Tactical type carrier "Tactical II"



Tactical type carrier “Tactical II”



➤ Wide shoulders and waist for better weight distribution and comfortable wearing

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Tactical type carrier "Tactical II"

➤ High durability
DRAG HANDLE



➤ Back pocket for
insertion of hard
ballistic plate
25x30cm

➤ 360° PALS System

Tactical type carrier "Tactical II"



> **Shell:** **CORDURA®**
Breathable, waterproof, windproof,
water and soil repellent

High Durability nylon 6.6
Cordura® 1000D



> **Lining:** High perspiration and
energy absorption

3D polyester SPACER fabric, 3.5mm,
COOLMAX® fresh

> **Hook and Loop fasteners for**
10.000 openings and closings

Acc. to MIL SPEC F AA-55126B



The Ballistic material UHMWPE

(Ultra High Molecular Weight Polyethylene)

Key Advantage Points:

- > Strength, power
- > Feeling, weight
- > Flexibility, comfort, endurance
- > Chemical resistance
- > Resistance to friction
- > UV stability to light and strength
- > Heat conductivity and comfort
- > Resistance to water
- > Floating ability
- > 10 years guarantee

ANORAK

**the Greek, dynamic and constantly evolving
design and manufacturing company,
proposes
ballistic protection solutions
of extremely high standards,
in the context of a lasting cooperation,
based on common values.**

THANK YOU!



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Appendixes

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KEY MILESTONES

1975 -1980

Founded by Ioannis Koskovos, the 1st Greek manufacturing unit for waterproofing. Private facilities of 900m2 in Athens. Exports to all over the world, from Canada to Australia.

1992

Development of Protection and High Visibility products. Waterproof & Traffic Vests of the Hellenic Police.

1998

Certification and Product Range with European Standard EN471 for High-Visibility Clothing. Contracts with the Public Sector: Municipal Authorities, Police, ILPAP, ELTA, Hellenic Railways Organization, Air Force, Piraeus Port Authority, Ministry of Economy & Finance. Private Sector Contracts: Super Fast and Blue Star Group, DHL, Goldair Handling, BRINKS, Aegean Airlines, Attica Routes, Interamerican Assistance, INTERBETON, ACS, Express Service, Swiss Port Hellas.

2012

Development of Corporate Environmental Liability Policy. Certification of the Environmental Management System ISO 14001.

2016 - Today

ANORAK launches bulletproof vests with its **own brand**. Create a full set of models according to the standards of the American Institute of Justice. Collaboration agreements with the most important suppliers of anti-ballistic materials (DSM, FMS). Tests and Certifications at one of Europe's most prestigious laboratories (AITEX Spain). Web presence development. Presence at world fairs (Milipol Paris 2017). **In Greece:** Manufactures for Security Companies, Air Force, Hellenic Game Wardens, Hellenic Police Forces. **Abroad:** Belgium, the Netherlands, Czech Republic, Vietnam, South Africa, Finland. At the same time, it represents top companies for products that complement anti-ballistic protection: bulletproof helmets and bulletproof masks, anti-fracture protection glasses. Is awarded NCAGE Code as a supplier for NATO.

1980-1990

Supplies the largest Public & Private Organizations: OEE, DEI, EYDAP, Hellenic Post, Olympic Airways, GERT. Heracles, TITAN SA.

1996

The 2nd generation of the family enters the business.

2008

Ballistic Protection: Creation of the Research and Development Department. Certification of a Quality Management System based on ISO 9001 Standard, for the Design and Development of Anti-Ballistic Solutions. Production of bulletproof vests.

2008-2016

ANORAK as a subcontractor produces more than **50,000 bulletproof vests**. Final recipients include Greece and the Greek Police and other countries such as: Finland, Belgium, France, Spain, United Arab Emirates

Product Guarantees

PRODUCT	GUARANTEE (YEARS)
Soft Armour Panel "Titanium®"	10 years
Soft Armour Panel "Chromium®"	10 years
Soft Armour Panel "Rhodium®"	10 years
Soft Armour Panel "Niobium®"	10 years
Soft Panel "Topaz®"	10 years
Hard Armor Plate "Iridium®" ,	10 years
Hard Armor Plate "Osmium®" ,	10 years
Carriers	2 years

Analytical technical data for Panels

Soft Armour Panel SP.3A.301 “Titanium®”

Protection level IIIA++

Acc. NIJ 0101.04

> 9x19mm

> 0,44 Magnum

Extra Threats:

SPECIAL 7,62X25mm FMJ **TOKAREV LC 470 ±10m/s**, acc. to NIJ 0101.04

SPECIAL 9X18mm FMJ **MAKAROV MSC 310 ±10m/s**, acc. to NIJ 0101.04

Average **V50** (9X19mm 8g FMJ RN) ≥ **595m/s**, acc. to NIJ 0101.04

Blade S1/G maximum perforation at **20J ≤ 16 mm**, acc. to NIJ 0115.00

Average Back Face Signature:

.44 Magnum SJHP **SPEER 4453** ≤ 33mm

9X19mm FMJ ≤ 19mm

7,62X25mm FMJ **TOKAREV LC** ≤ 15mm

9X18mm FMJ **MAKAROV MSC** ≤ 13mm

> **V50** ≥ 595m/sec

> **Weight:** 5,55 kg/m²

> **Thickness:** 7 mm

> **Certification:** AITEX

Analytical technical data for Panels

Soft Armour Panel SP.3A.302 "Chromium®"

Protection Level IIIA+

Acc. to NIJ 0101.04:

> 9x19mm

> 0,44 Magnum

Extra threats:

SPECIAL 7,62X25mm FMJ **TOKAREV LC 520 ±10m/s**, acc. to NIJ 0101.04

Average **V50** (9X19mm 8g FMJ RN) $\geq 581\text{m/s}$, acc. to NIJ 0101.04

Average **V50** (7.62X25mm 5.5g FM) $\geq 587\text{m/s}$, acc. to NIJ 0101.04

Average Back Face Signature:

.44 Magnum SJHP **REMINGTON** $\leq 37\text{mm}$

9x19mm FMJ $\leq 23\text{mm}$

7.62x25mm FMJ **TOKAREV LC** $\leq 22\text{mm}$

> **V50** $\geq 581\text{m/sec}$ (9x19mm 8g FMJ RN)

> **V50** $\geq 587\text{m/sec}$ (7.62x25mm 5.5g FM)

> **Weight:** 5,15 kg/m²

> **Thickness:** 7 mm

> **Certification:** AITEX

Analytical technical data for Panels

Soft Armour Panel SP.3A.303 “Rhodium®”

Protection Level IIIA++

Acc. to NIJ 0101.06:

- > .44 Magnum SJHP SPEER 4453
- > .357 SIG JSP SPEER 4363

Extra threats:

- > 7.62x25mm FMJ TOKAREV LC
- > 9x18mm FMJ MAKAROV MSC
- > 9x19mm HP ACTION 4 RUAG

Average Back Face Signature:

- > .44 Magnum SJHP SPEER 4453 $\leq 40\text{mm}$ (size Small (C-2))
- > .357 SIG JSP SPEER 4363 $\leq 31\text{mm}$ (size Small (C-2))
- > 7.62x25mm FMJ TOKAREV LC $\leq 19\text{mm}$ @ $500 \pm 10\text{m/s}$ (size Small (C-2))
- > 9x18mm FMJ MAKAROV MSC $\leq 17\text{mm}$ @ $330 \pm 10\text{m/s}$ (size Small (C-2))
- > 9x19mm HP ACTION 4 RUAG $\leq 16\text{mm}$ @ $460 \pm 10\text{m/s}$ (size Small (C-2))
- > Blade S1/G maximum perforation $\leq 12\text{mm}$ @ 33Joules acc. to NIJ 0115.00
- > Blade P1/A maximum perforation $\leq 20\text{mm}$ @ 20Joules acc. to NIJ 0115.00
- > Blade P1/B maximum perforation $\leq 17\text{mm}$ @ 24Joules acc. to HOSDB 2017

> **Weight:** 7.5 kg/m²

> **Thickness:** 8 mm

> **Certification:** AITEX

Analytical technical data for Panels

Soft Armour Panel SPM.3A,1.2304 “Niobium®”

Protection Level IIIA

Acc. to NIJ 0101.04:

- > .44 Magnum SJHP REMINGTON
- > 9x19mm FMJ

Protection Level

Acc. to NIJ 0115.00:

- > Level 2 (Blades P1/A, S1/G)
- > Level 1 (NIJ Spike)

Average Back Face Signature:

- > . 44 Magnum SJHP REMINGTON $\leq 25\text{mm}$
- > 9x19mm FMJ $\leq 15\text{mm}$

Maximum perforation:

- > Blade S1/G maximum perforation @ 33 Joules $\leq 0\text{mm}$
- > Blade S1/G maximum perforation @ 50 Joules $\leq 0\text{mm}$
- > Blade P1/A maximum perforation @ 33 Joules $\leq 3\text{mm}$
- > Blade P1/A maximum perforation @ 50 Joules $\leq 13\text{mm}$
- > Spike NIJ maximum perforation @ 24 Joules $\leq 0\text{mm}$
- > Spike NIJ maximum perforation @ 36 Joules $\leq 5\text{mm}$

> **Weight:** 7.2 kg/m²

> **Thickness:** 12 mm

> **Certification:** AITEX

Analytical technical data for Panels

Soft Panel SSP.1.501 “Topaz®”

Protection Level I

Acc. to NIJ 0115.00

Protection from Blades :

P1A/ maximum perforation @ 24 J \leq 0 mm

P1A/ maximum perforation @ 36 J \leq 5 mm

S1G/ maximum perforation @ 24 J \leq 0 mm

S1G/ maximum perforation @ 36 J \leq 1 mm

Protection from Spikes :

Spike NIJ maximum perforation @ 24 J \leq 0 mm

Spike NIJ maximum perforation @ 36 J \leq 10 mm

> **Weight:** 5.40 kg/m²

> **Thickness:** 5.5 mm

> **Certification:** AITEX



We Ensure your Safety and Protection
Anytime, Anyplace.

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www.anorak.gr

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